Canon

imageRUNNER 1750i / 1740i / 1730i

Printer Guide



Please read this guide before operating this product.
After you finish reading this guide, store it in a safe place for future reference.

ENG

imageRUNNER 1750i/1740i/1730i Printer Guide

Manuals for the Machine

The manuals for this machine are organized as shown below. Please refer to them for detailed information. Some manuals may not be needed for certain system configurations and products purchased.

[Book symbol] Guides with this symbol are printed manuals.

[CD-ROM symbol] Guides with this symbol are PDF manuals included on the accompanying CD-ROM.

Contents	Guide	Format
• Installation of the Machine	Starter Guide	Printed
• Legal Notices • Setup Instructions	User's Guide	Printed
• Quick Reference for Basic Operations	Easy Operation Guide	Printed, CD-ROM
• Basic Operations • Troubleshooting	Reference Guide	CD-ROM
• Copying Instructions	Copying Guide	CD-ROM
• Sending and Fax Instructions	Sending and Facsimile Guide	CD-ROM
• Remote User Interface Instructions	Remote UI Guide	CD-ROM
• Network Connectivity • Security Management	System Settings Guide	CD-ROM
• Color Network ScanGear Instructions	Network ScanGear Guide	CD-ROM
• USB Memory Media Printing Instructions • PS/PCL/UFRII LT Printer Instructions	Printer Guide (This Document)	CD-ROM
• Windows Printer Driver Instructions	Windows Printer Driver Guide	CD-ROM
• Windows Fax Driver Instructions	Windows Fax Driver Guide	CD-ROM

To view the manual in PDF format, Adobe Reader/Adobe Acrobat Reader is required. If Adobe Reader/Adobe Acrobat Reader is not installed on your system, please download it from the Adobe Systems Incorporated website.

How This Manual Is Organized

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Chapter 5 Troubleshooting

Chapter 6 Appendix

Preface

Thank you for purchasing the Canon imageRUNNER 1750i/1740i/1730i. Please read this manual thoroughly before operating the machine to familiarize yourself with its capabilities, and to make the most of its many functions. After reading this manual, store it in a safe place for future reference.

How to Use This Manual

Symbols Used in This Manual

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.

IMPORTANT — Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine or property.

NOTE — Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

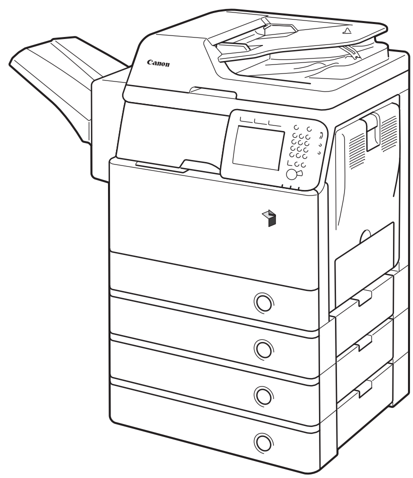
Keys Used in This Manual

The following table provides a few examples of how keys to be pressed are expressed in this manual:

	Keys	Example
Control Panel	Key icon + (Key Name)	(Additional Functions)
Touch Panel Display	[Key Name]	[OK], [Cancel], etc.
	[Key Icon]	[▼], [▲], etc.

Illustrations Used in This Manual

The machine illustrations used in this manual are those of the imageRUNNER 1750i with the following optional equipment attached: Staple Finisher-H1 and Cassette Module-Y1 (triple-tiered).

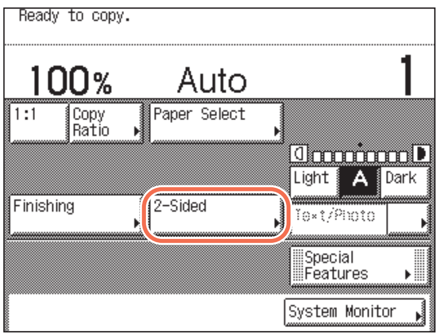


Displays Used in This Manual

Screen shots used in this manual may differ from actual displays depending on the machine configuration.

The keys to be pressed are marked with a ⬭ , as shown below.

When multiple keys can be pressed, all of them will be marked. Select the keys best suited to your needs.



Abbreviations Used in This Manual

In this manual, the product name “Microsoft Windows operating system” is abbreviated as “Windows.”

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Introduction to Print Function

1

CHAPTER

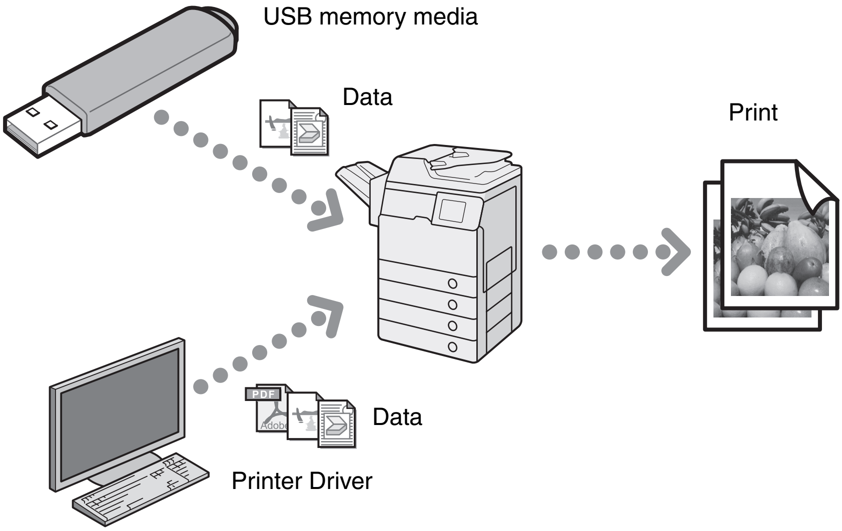
This chapter provides an overview of the Printer function.

Overview of the Printer Function

There are two methods for using this machine as a printer to print documents, as shown below.

Printing directly from a USB memory media device

You do not need to connect the machine to your computer to print images.
For more information, see Chapter 2, “Printing from USB Memory Media (Media Print).”



Printing from a computer via the printer driver

For more information, see the *Windows Printer Driver Guide.*
For information on the printer settings from the machine, see Chapter 4, “Customizing Settings.”

Printing from USB Memory Media (Media Print)

2

CHAPTER

This chapter describes how to print from USB memory media.

Printing from USB Memory Media

You can print data directly from a USB memory media device by inserting it into the machine and selecting the desired images on the touch panel display. You do not need to connect the machine to your computer to print images.

This function is available only when the Use Media Print setting in the Memory Media Settings is set to 'On'. For more information, see Chapter 7, "Other System Settings," in the *System Settings Guide*.

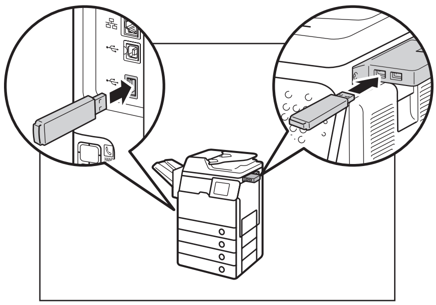
IMPORTANT

- The supported file systems of a USB memory media device are FAT16 and FAT32.
- The supported maximum sizes of a USB memory media device are as follows:
  - FAT32: 8GB
  - FAT16: 2GB
- USB memory media devices with security function or card readers are not supported.
- USB memory media devices used with an extension cable are not supported.
- Use of USB memory media devices through a USB hub (except for the optional USB Application 3-Port Interface Kit-B1) is not supported.
- USB memory media devices that do not comply with USB specifications are not supported.

NOTE

- You can only print data from one folder at a time.
- You cannot select data in a lower level folder.
- The following file formats are supported:
  - JPEG
  - TIFF
- JPEG files that conform to the following are supported:
  - DCF/Exif2.21 or earlier/JFIF
  - Number of pixels: 160 × 120 to 7,040 × 10,200 pixels (approximately equivalent to A3 or 11" × 17" size in 600 dpi)*

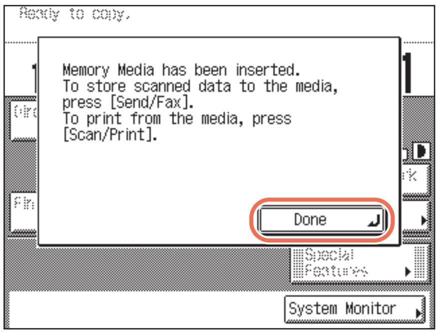
  * For example, you can print A3 size image on A4 paper. (A3 and 11" × 17" paper are not available.)
  - Number of components: 3
  - Sampling ratios: 4:1:1 (16 × 16), 4:1:1 (32 × 8), 4:2:2 (16 × 8), or 4:4:4 (8 × 8)
- Progressive JPEG files are not supported.
- Supported TIFF file format is TIFF Profile F, which is a black and white TIFF file format used for I-faxes.
- The images to be printed are automatically rotated to fit on the selected paper size when necessary. However, the TIFF image with the length of 8,192 pixels or more cannot be rotated.

1 

Insert the USB memory media device containing the data file you want to print into the USB port on the left or right side of the machine.

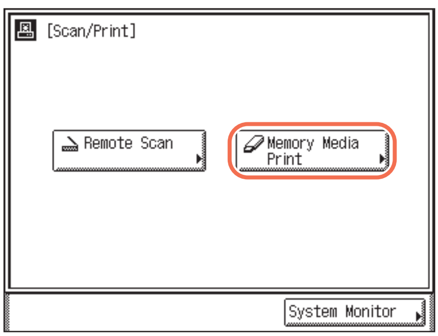
IMPORTANT

- The USB ports on the right side of the machine are optional (USB Application 3-Port Interface Kit-B1).
- The left side USB port is not available when the above option is attached.



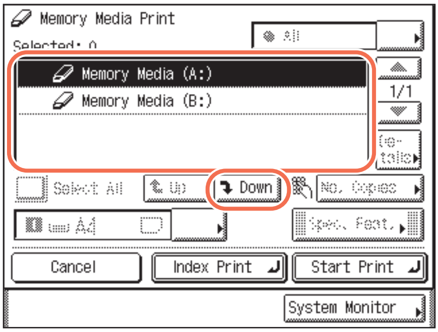
NOTE

- If the screen on the left appears, press [Done].
- The displayed message may vary depending on the settings in Memory Media Settings. (See Chapter 7, "Other System Settings," in the *System Settings Guide*.)
- If any of the messages below appear, follow the instructions in Chapter 2, "Basic Operations," in the *Reference Guide* to take the required steps:
  - <Enter the Department ID and Password using the numeric keys.>
  - <You must insert a control card.>
  - <Enter the User ID and Password.>

2 

Press (SCAN/PRINT) → [Memory Media Print].

3

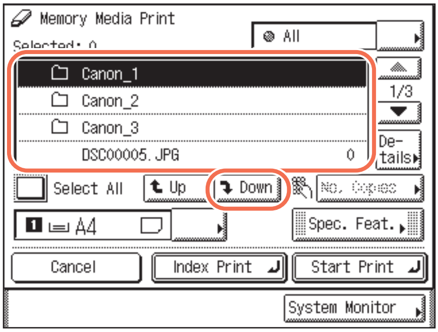


Select the USB memory media device that stores the data that you want to print ➞ [Down].

NOTE

You can print an index of all the files in the selected USB memory media device. For instructions on how to print an index, see "Index Printing," on p. 2-8.

4



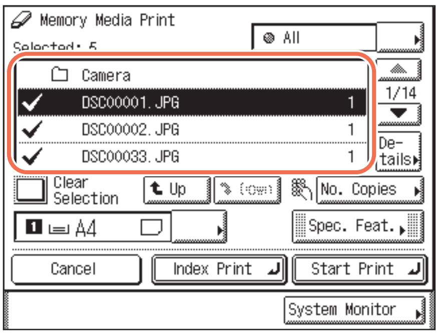
Select the folder that contains the data that you want to print ➞ [Down].

If you select data which is saved outside the folder, proceed to step 5.

NOTE

You can select the desired data by sorting all data according to date or extension. For instructions on how to sort data by date, see "Selecting Files by Date," on p. 2-10. For instructions on how to sort data by extension, see "Selecting Files by Extension," on p. 2-12.

5



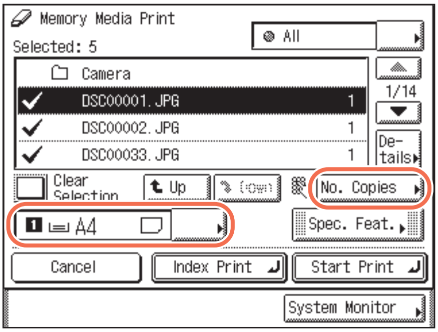
Select the data that you want to print.

You can simultaneously select multiple files in the same folder.

NOTE

- You can select data from only one folder at a time.
- If you want to check the details of the data, press [Details].

6



Specify the desired paper source and the number of prints.

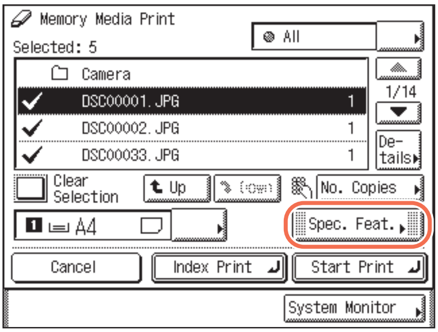
[▸] : Press [▸] and select the desired paper source.

NOTE

The image size is automatically adjusted to fit on the selected paper size. If the image size exceeds the size of the selected paper, only the part that fits on the paper is printed.

[No. Copies]: Specify the number of prints by pressing [-] or [+] or using ⓪ - ⑨ (numeric keys). The number can be specified individually.

7



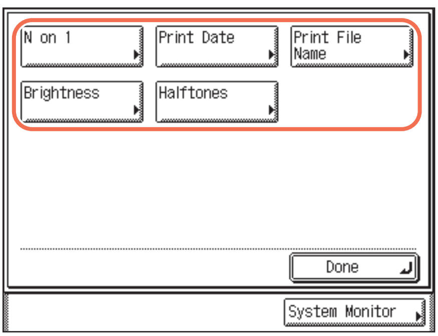
If you want to make the additional settings, press [Spec. Feat.].

Otherwise, proceed to step 9.

NOTE

The settings below are only for JPEG files. If the selected data includes TIFF files, the settings are not applied to the TIFF files.

8



Select the desired settings for the prints.

[N on 1]: Select [2 On 1] or [4 On 1] to reduce two or four images onto one sheet.

NOTE

- The number of prints is limited to one.
- Only JPEG data can be printed. If the selected files include TIFF files, only the JPEG files are printed.
- The print size is adjusted automatically to fit on one sheet of paper.
- The layout order cannot be specified.
- A blank space for printing the date and file name is left below the printed image even if [Print Date] or [Print File Name] is set to [Off].

[Print Date]: Select whether or not to print the creation date on the printed image.

[Print File Name]: Select whether or not to print the file name on the printed image.

NOTE

- Only the dates and file names for JPEG files can be printed.
- The printable file name can consist of up to 20 characters.
- When you print an index, the date and file names are printed automatically. For instructions on how to print an index, see “Index Printing,” on p. 2-8.

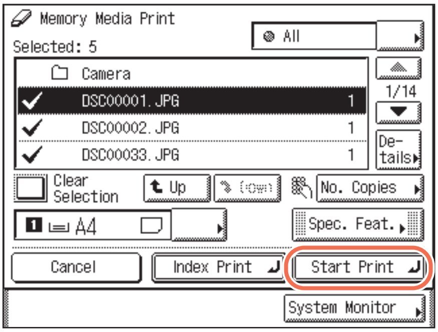
[Brightness]: Adjust brightness to suit your needs.

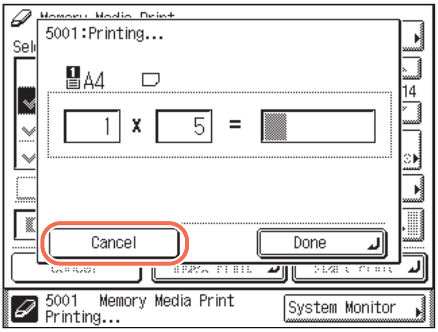
[Halftones]: Select [Error Diffusion] or [Gradation] to optimize the image for printing.

NOTE

- The [Brightness] and [Halftones] settings are applied only to the JPEG files.
- The default setting for the [Halftones] setting is [Error Diffusion].

9 **Press [Start Print].**





If you want to cancel the job, press [Cancel] or (Stop) while the pop up screen is displayed.

NOTE
For instructions on how to check the record of media print jobs, see "Checking the Print Log," on p. 3-6.

10 **When printing is complete, remove the USB memory media device from the USB port.**

IMPORTANT
Do not remove the USB memory media device when the Processing/Data indicator is blinking. The blinking indicator indicates that the machine is accessing the memory data. The data may be damaged if you remove the USB memory media device at this point.

Index Printing

You can print an index of the data saved on a USB memory media device.

NOTE

- This function is available only for JPEG of 5,100 × 8,400 pixels or less. If the selected folder contains TIFF files, they are not printed.
- The print date and file names are printed under the images automatically.

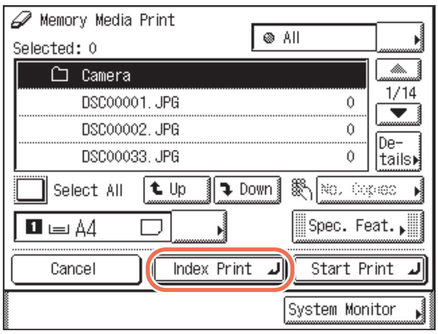
1 **Display the media print screen to specify the files for printing.**

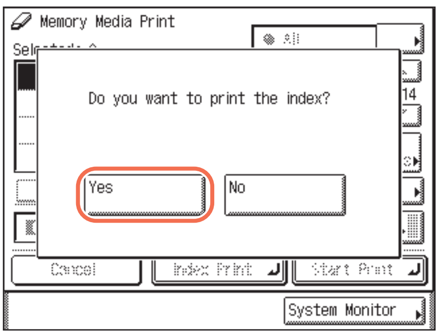
For help, see steps 1 to 3 of "Printing from USB Memory Media," on p. 2-2.

2 **Select the folder that contains the files for which you want to print an index.**

If you want to select a folder, press the folder ➞ [Down].

3





Press [Index Print] ➞ [Yes].

When printing is complete, remove the USB memory media device from the USB port.

IMPORTANT

Do not remove the USB memory media device when the Processing/ Data indicator is blinking. The blinking indicator indicates that the machine is accessing the memory data. The data may be damaged if you remove the USB memory media device at this point.

Selecting All Files in Folder

You can print all files saved on the selected folder at a single time. The number of prints can be specified for each individual file.

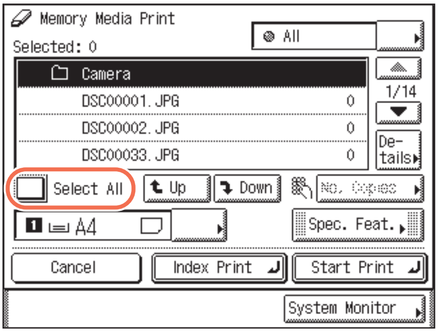
1 Display the media print screen to specify the files for printing.

For help, see steps 1 to 3 of “Printing from USB Memory Media,” on p. 2-2.

2 Select the folder that contains the files that you want to print.

If you want to select a folder, press the folder ➞ [Down].

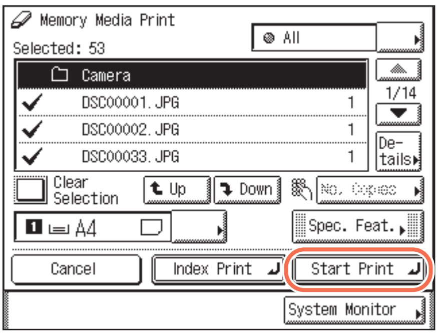
3



Press [Select All].

To specify the number of prints for individual files, see step 6 in “Printing from USB Memory Media,” on p. 2-2.

4



Press [Start Print].

When printing is complete, remove the USB memory media device from the USB port.

IMPORTANT

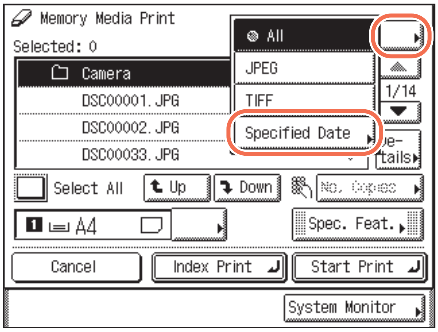
Do not remove the USB memory media device when the Processing/Data indicator is blinking. The blinking indicator indicates that the machine is accessing the memory data. The data may be damaged if you remove the USB memory media device at this point.

Selecting Files by Date

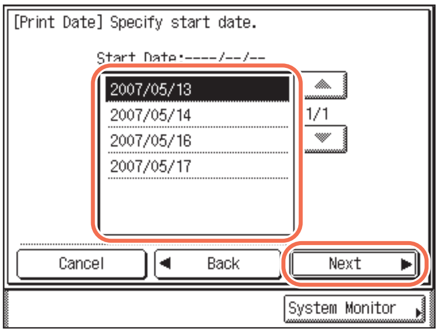
You can search files by date to select and print only the desired files. This function is useful especially when there are a number of files in the folder or when the file names make it difficult to identify the desired file(s).

1 **Display the media print screen to specify the files for printing.**

For help, see steps 1 to 3 of “Printing from USB Memory Media,” on p. 2-2.

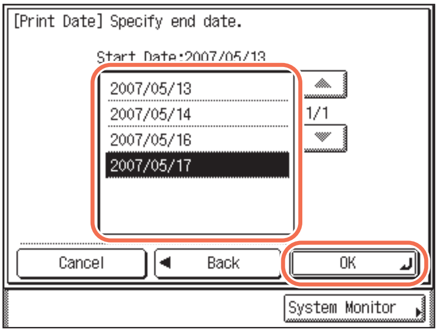
2 

Press [ ] → [Specified Date].

3 

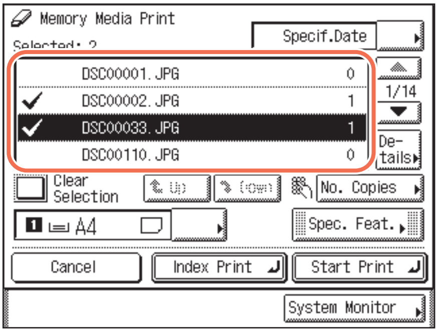
Select the start date → [Next].

4



Select the end date → [OK].

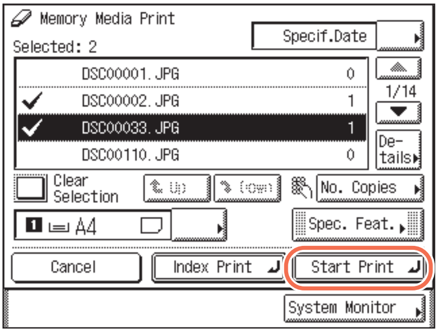
5



Select the data that you want to print.

To specify the number of prints for individual files, see step 6 in "Printing from USB Memory Media," on p. 2-2.

6



Press [Start Print].

When printing is complete, remove the USB memory media device from the USB port.

IMPORTANT

Do not remove the USB memory media device when the Processing/ Data indicator is blinking. The blinking indicator indicates that the machine is accessing the memory data. The data may be damaged if you remove the USB memory media device at this point.

Selecting Files by Extension

You can search files by format to select and print only the desired files.

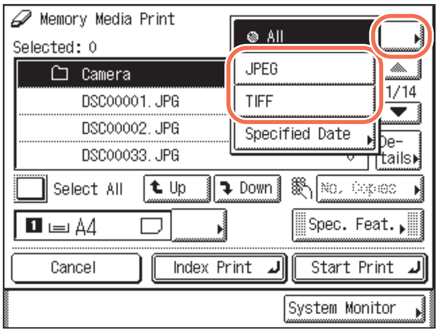
1 **Display the media print screen to specify the files for printing.**

For help, see step 1 to 3 of "Printing from USB Memory Media," on p. 2-2.

2 **Select a folder that contains the files that you want to print.**

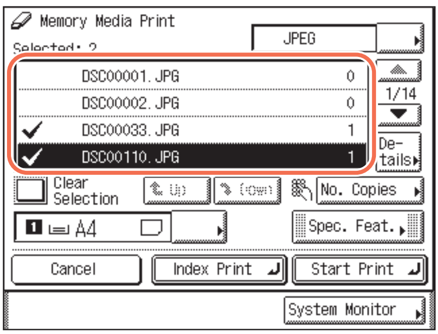
If you want to select a folder, press the folder ➞ [Down].

3 **Press ➞ [JPEG] or [TIFF].**

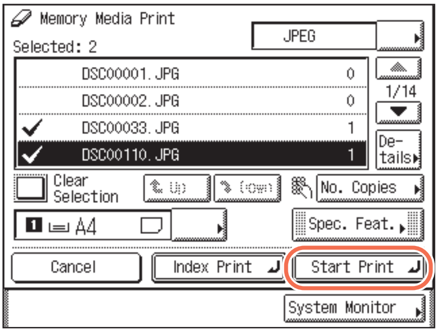


4 **Select the data that you want to print.**

To specify the number of prints for individual files, see step 6 in "Printing from USB Memory Media," on p. 2-2.



5



Press [Start Print].

When printing is complete, remove the USB memory media device from the USB port.

IMPORTANT

Do not remove the USB memory media device when the Processing/ Data indicator is blinking. The blinking indicator indicates that the machine is accessing the data in the USB memory media device. The data may be damaged if you remove the USB memory media device at this point.

Managing Print Jobs

3

CHAPTER

This chapter describes how to cancel print jobs using (Stop) and the System Monitor screen, and how to check the details and records of print jobs using the System Monitor screen.

Managing Print Jobs

This section describes how to cancel print jobs using (Stop) and the System Monitor screen, and how to check the details and records of print jobs using the System Monitor screen.

Canceling a Print Job Using the Stop Key

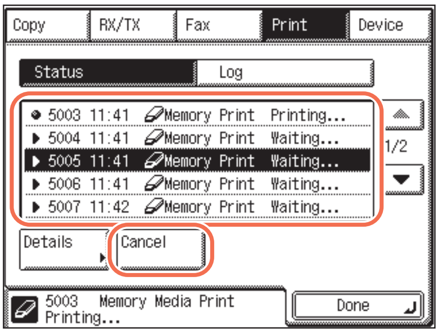
You can cancel a print job using (Stop) while printing.

NOTE
Several prints may be output even after you cancel a job.

1 Press (Stop).

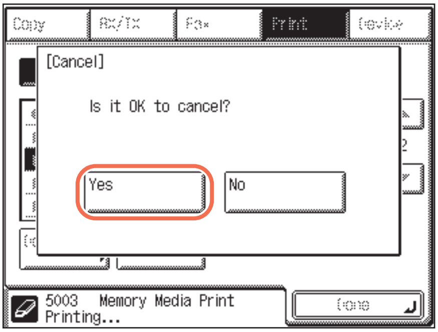
If the screen returns to the top screen, the print job is canceled.

● **If the Print Job Status screen below appears:**



❑ Select the job you want to cancel → press [Cancel].

NOTE
- If the Device screen appears, press [Print] to display the Print screen shown in the left.
- You cannot select multiple jobs and cancel them all at once. Select and cancel one job at a time.



❑ Press [Yes].

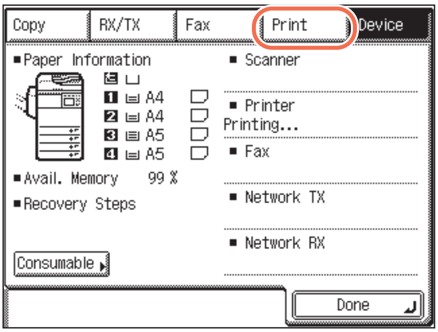
Checking and Canceling Print Jobs Using the System Monitor

You can check the status of print jobs and cancel jobs being processed or waiting to be processed from the System Monitor screen.

NOTE

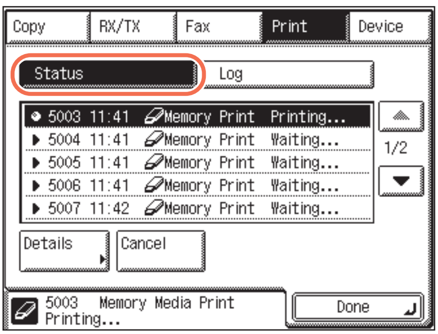
Several prints may be output even after you cancel a job.

1



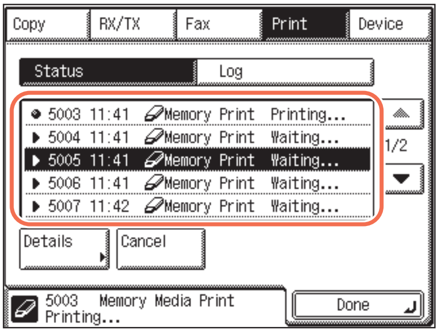
Press [System Monitor] → [Print].

2



Press [Status].

3 **Use [▼] or [▲] to scroll through the job list, and select the job that you want to check or cancel.**

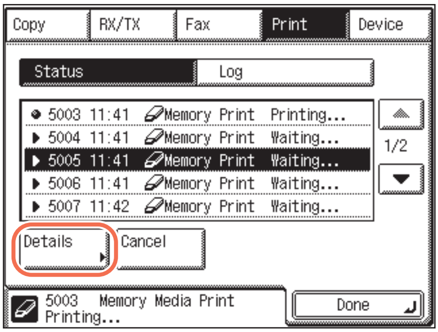


NOTE

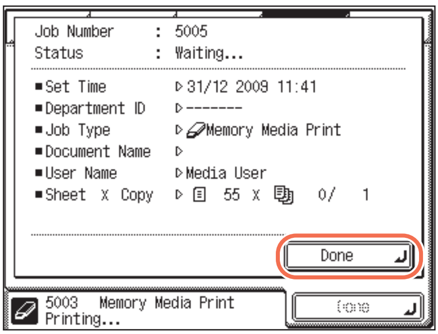
The messages displayed on the Status screen are as follows:

- [Printing]: Current job
- [Waiting]: Reserved jobs

● **If you want to check the job details:**

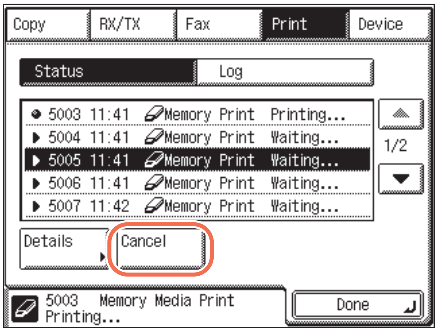


❑ Press [Details].



❑ Check the job details and press [Done].

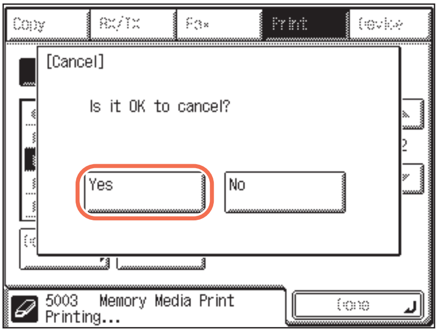
● If you want to cancel the job:



❑ Press [Cancel].

NOTE

You cannot select multiple jobs and cancel them all at once.



❑ Press [Yes].

If you do not want to cancel the job, select [No] to return to the previous display.

4 **Press [Reset icon] (Reset) to return to the top screen.**

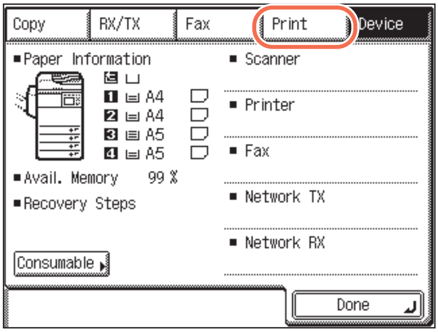
Checking the Print Log

You can check all of the completed print jobs using the System Monitor screen.

NOTE

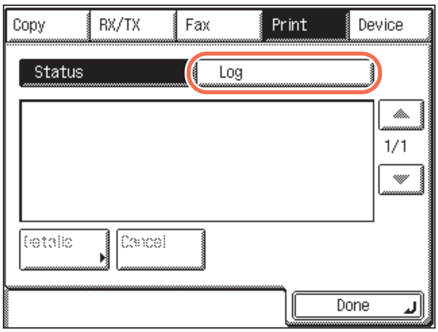
If Job Log Display in System Settings is set to ‘Off’, the print log screen is not displayed on the System Monitor screen. For instructions on how to set Job Log Display, see Chapter 6, “Protecting the Machine from Unauthorized Access,” in the *System Settings Guide.*

1



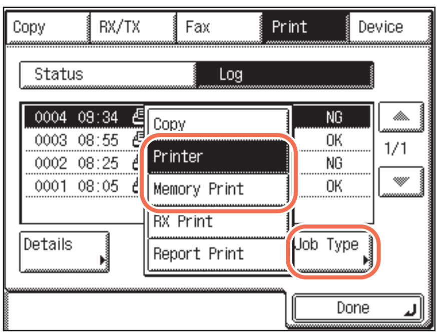
Press [System Monitor] → [Print].

2



Press [Log].

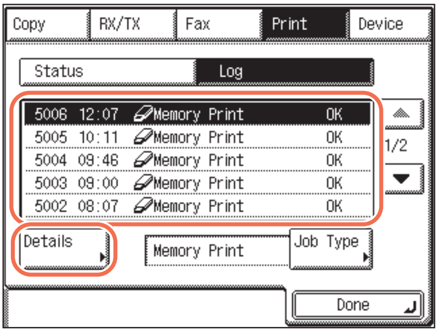
3



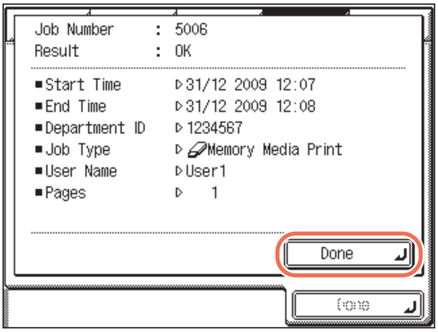
Press [Job Type] → [Printer] or [Memory Print].

[Printer]:
Press to check the print jobs from the printer driver.

[Memory Print]:
Press to check the print jobs from the USB memory media device.

4 

Use [▼] or [▲] to scroll through the job list, and select the job that you want to check ➞ press [Details].

5 

Check the details of job log ➞ [Done].

6 **Press [⟋] (Reset) to return to the top screen.**

Customizing Settings

4

CHAPTER

This chapter describes how to use the Printer Settings menu and its submenus from the Additional Functions.

Printer Settings

This section describes the printer settings and how to access them using the touch panel display.

The basic settings, such as the number of copies and the paper size, can be specified by the application sending the print job or by the printer driver. The machine, however, has more printer settings including those that cannot be specified remotely from an application or from the printer driver.

There are two ways to specify the printer settings, as follows.

- Specifying the settings on the touch panel display:
  Display the Printer Settings screen on the touch panel display and specify the settings by pressing the appropriate keys on the screen.
- Specifying the settings on the Remote UI:
  You can specify some settings from your computer using your web browser.

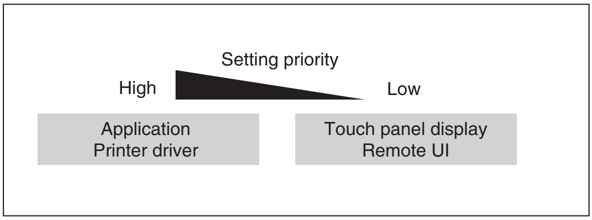
NOTE

- This guide only explains how to specify the printer settings on the touch panel display. For instructions on how to specify the printer settings on the Remote UI, see the *Remote UI Guide*.
- The Printer Settings are stored in the machine's nonvolatile memory. Therefore, the settings are stored even if the power to the machine is switched OFF, and they will still be available when the power is switched ON again.

Setting Priorities

When a particular setting can be specified either by using the touch panel display on the machine or by specifying the setting in an application or the printer driver, the setting from the application or printer driver will override the setting made on the touch panel display on the machine.

For settings available only on the touch panel display or Remote UI, the most recently specified settings take priority.



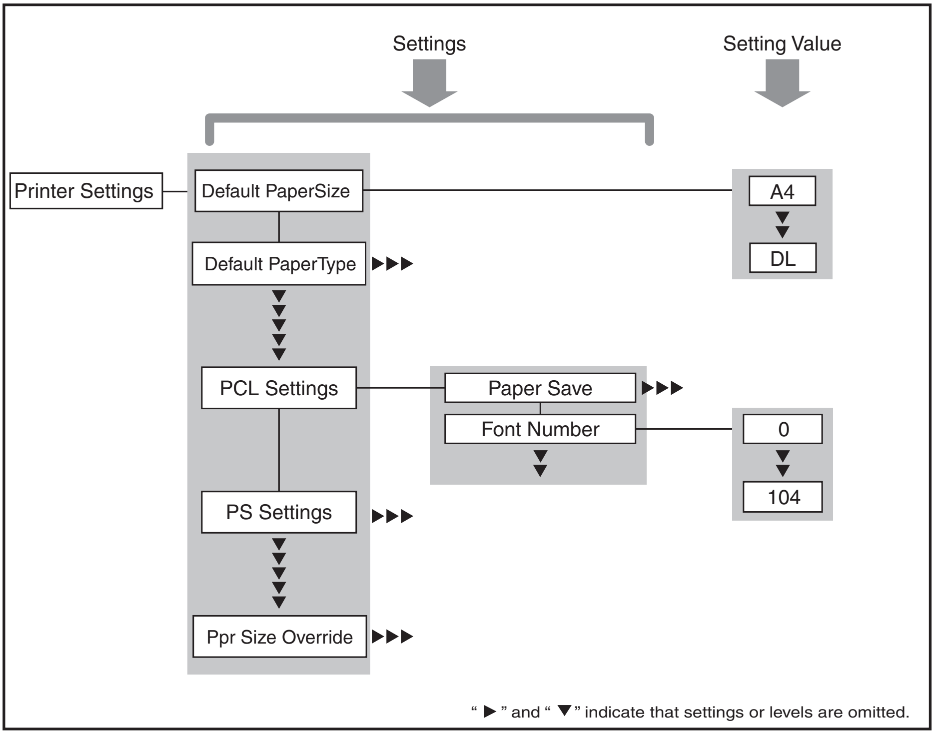
The printer drivers are included on the user software CD-ROMs provided with the machine. For more information, see Chapter 3, “Accompanying CD-ROMs,” in the *User’s Guide*.

Using the Printer Settings Menu

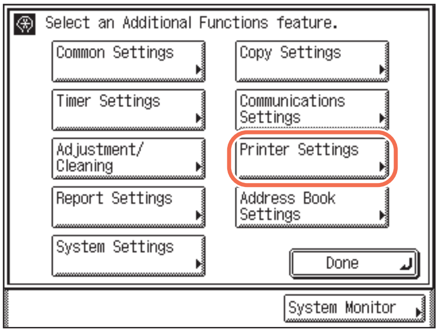
The Printer Settings menu enables you to access common features. Below is an abbreviated outline of the Printer Settings menu structure. For a detailed description of all the Printer Settings menu options, see “Settings Menu,” on p. 4-7.

NOTE

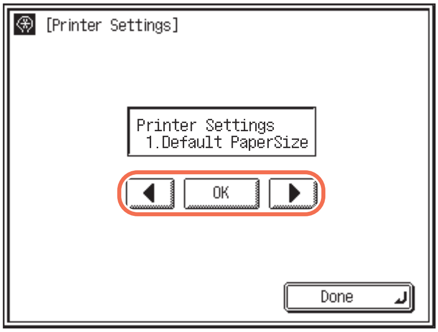
Depending on the printer environment, some settings may not be available.



1 **Press (Additional Functions).**

2 

Press [Printer Settings].

3 

Press [◀] or [▶] to select the setting that you want to change → press [OK].

Referring to the descriptions of the following settings, select the option best suited to your preferences:

- Default PaperSize (See p. 4-7)
- Default PaperType (See p. 4-8)
- Copies (See p. 4-8)
- 2-Sided Printing (See p. 4-8)
- Print Quality (See p. 4-9)
- Layout (See p. 4-11)
- Auto Continue (See p. 4-13)
- Timeout (See p. 4-14)
- Finishing (See p. 4-15)
- Personality (See p. 4-17)
- Mode Priority (See p. 4-17)
- Auto Select (See p. 4-17)
- Initialize (See p. 4-18)
- PCL Settings (See p. 4-19)
- PS Settings (See p. 4-26)
- Ppr Size Override (See p. 4-28)

4 **Press [Reset icon] (Reset) to return to the top screen.**

Settings Menu

This section provides detailed information on the Printer Settings.

NOTE

The default settings are indicated in bold.

Default PaperSize

A4, B5, A5, LGL, LTR, STMT, EXECUTIV, No. 10 (COM10), MONARCH, ISO-C5, ISO-B5, DL

This setting defines the default paper size used when the paper size cannot be set from the printer driver in the computer, or when no paper source is specified.

IMPORTANT

If you are printing from a computer that does not have the appropriate printer driver for the machine, make sure that the paper loaded in the paper drawer matches the paper size selected for this setting. If paper of the selected size is missing in any of the paper sources, the machine displays an error message on the touch panel display and suspends further printing. If no paper source has been selected through the application, the machine automatically selects the default printer setting for the paper size. (See Chapter 3, “Configuring the Machine’s Basic Settings,” in the *Reference Guide*.)

Default PaperType

Plain, Color, Recycled, Heavy Paper 1, Transparency, Bond, Labels, 3Hole Punch Paper, Envelope

This setting sets the default paper type to be used for print jobs. This machine has internally defined optimal print modes for each specified paper type. For more information on the paper types, see Chapter 7, “Appendix,” in the *Reference Guide*.

IMPORTANT

If you are printing from a computer that does not have the appropriate printer driver for the machine, make sure that the paper loaded in the paper drawer matches the paper type selected for this setting. If paper of the selected type is missing in any of the paper sources, the machine displays an error message on the touch panel display and suspends further printing. If no paper source has been selected through the application, the machine automatically selects the default printer setting for the paper type. (See Chapter 3, “Configuring the Machine’s Basic Settings,” in the *Reference Guide*.)

Copies

1 to 999; **1**

This setting enables you to specify the number of copies printed. The default setting is ‘1’, but you can specify up to 999 copies.

2-Sided Printing

Off, On

This setting selects one- or two-sided printing. In the 2-Sided Printing mode, the document is printed on both sides of the paper.

NOTE

- In the 2-Sided Printing mode, you can use A4, A5, B5, LTR, LGL, STMT, or EXEC paper.
- The paper types and weight available for two-sided printing are as follows:
  - Paper type: Plain, Recycled, Color, 3Hole Punch Paper (only A4 or LTR size is available), Heavy Paper 1
  - Paper weight: 64 to 105 g/m^2

Print Quality

■ Image Refinement

On, Off

This setting smoothes the jagged outlines of characters and graphics.

If [On] is selected, smoothing is performed before printing.

If [Off] is selected, jobs are printed without being smoothed.

NOTE

The effects of image refinement may vary depending on the types of characters and graphics on the printed document.

■ Density

9 levels; **5**

This setting adjusts the print density.

Pressing [◀] or [▶] makes the print image lighter or darker, respectively. You can select from nine levels, with level '5' (middle) being the default setting.

IMPORTANT

This setting applies only to print jobs sent from a computer via the printer driver. To adjust the density when printing from USB memory media, use the Printer Density setting in Common Settings. (See Chapter 3, "Configuring the Machine's Basic Settings," in the *Reference Guide*.)

■ Toner Save

Off, On

This setting enables or disables the toner saving feature. When this feature is enabled, less toner is used to print documents, resulting in a longer toner life.

IMPORTANT

This setting applies only to print jobs sent from a computer via the printer driver. To save toner when printing from USB memory media, enable the Toner Save Mode in Common Settings. (See Chapter 3, "Configuring the Machine's Basic Settings," in the *Reference Guide*.)

NOTE

If [On] is selected for Toner Save, very light or finely detailed images may not be printed clearly.

■ Line Refinement

On, Off

This setting enables you to make clearer prints of documents containing fine lines and small characters.

■ Horizontal Line

Off, Level 1, Level 2, Level 3, Level 4

This setting adjusts the thickness of horizontal lines to produce fine lines and small characters more clearly. The higher the level number, the thicker the horizontal lines printed.

NOTE

- This setting is also available when the Line Refinement is set to [On] in the printer driver.
- With this setting, horizontal lines are based on the direction in which the paper is fed.
- Selecting [Level 2] or higher for this setting may result in abrupt changes in gradation with halftone images.

■ Vertical Line

Off, Level 1, Level 2, Level 3, Level 4

This setting adjusts the thickness of vertical lines to produce fine lines and small characters more clearly. The higher the level number, the thicker the vertical lines printed.

NOTE

- This setting is also available when the Line Refinement is set to [On] in the printer driver.
- With this setting, vertical lines are based on the direction in which the paper is fed.
- Selecting [Level 2] or higher for this setting may result in abrupt changes in gradation with halftone images.

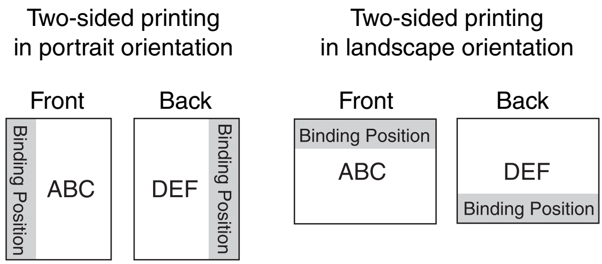
Layout

■ Binding Location

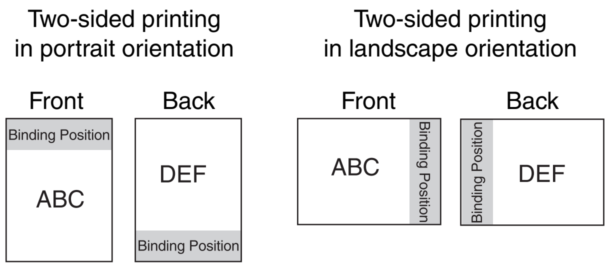
Long Edge, Short Edge

This setting determines whether the binding position is along the long edge or the short edge of the paper. When binding for two-sided printing, the image orientation is automatically adjusted to produce the correct layout.

When the binding position is on the long edge of the paper:



When the binding position is on the short edge of the paper:



NOTE

- You cannot create a binding margin with this setting alone. Use this setting in combination with the Margin setting (described below) to create a binding margin.
- For two-sided printing, the orientation of the image on the back side of the page may be changed using this setting.

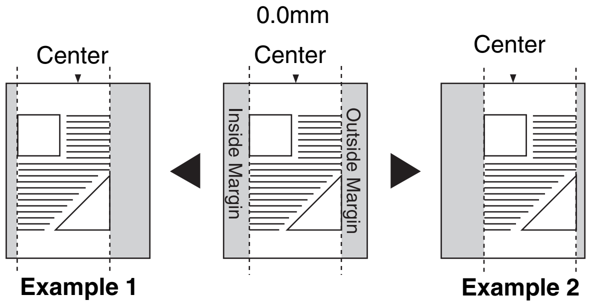
■ Margin

-50.0 to +50.0mm (in increments of 0.5 mm); **0.0mm**

This setting sets the page margin in millimeters or inches.

Press [◀] to increase the width of the outside margin. (**Example 1**)

Press [▶] to increase the width of the inside margin. (**Example 2**)



You can specify the edge along which the margin will be created in the Binding setting. To create a margin along one of the edges of the paper, use this setting in combination with the Binding setting.

IMPORTANT

If this setting moves the image outside the printable area, part of the image may be cut off.

NOTE

Holding down [◀] or [▶] makes the values change faster.

Combining the Binding and Margin Settings

The figures below illustrate how the Binding and Margin settings are combined. You can set the paper orientation using the printer driver. (See Chapter 1, “Printing Functions,” in the *Windows Printer Driver Guide*.)

Binding and Margin Settings

			Portrait printing		Landscape printing	
			Front	Back (Two-sided printing)	Front	Back (Two-sided printing)
Binding Location	Long Edge	Margin [+]	ABC	DEF	ABCDE	FGHIJK
		Margin [–]	ABC	DEF	ABCDE	FGHIJK
	Short Edge	Margin [+]	ABC	DEF	ABCDE	FGHIJK
		Margin [–]	ABC	DEF	ABCDE	FGHIJK

The shaded parts (▨) indicate the binding margin.

Auto Continue

Off, On

This setting enables you to automatically clear an error and continue printing when an error occurs (Error skip).

If [Off] is selected, you must perform error skips from the touch panel display.

If [On] is selected, error skips are performed automatically.

NOTE

- Error skip only temporarily clears an error, so the data may not print correctly.
- This setting is valid even if multiple errors have occurred.

Timeout

On (5 to 300sec), Off; **15sec**

The Timeout setting enables the machine to discard a print job that remains in the machine's memory after a specified period of time.

This setting is useful when the data for the current job has some error and prevents the machine from performing further printing. In this case, the machine will not receive other print commands because it performs printing in chronological order (jobs are printed in the order they are received).

If the Timeout setting is enabled, the current job is discarded automatically after the specified period of time. For example, if the Timeout is enabled at '20 sec', the data for the current job will be erased from the machine's memory 20 seconds after the machine starts processing the data.

If [Off] is selected, the machine will not discard jobs automatically.

IMPORTANT

- This setting applies only for PCL and PS data.
- If a job that consists of a large amount of data is sent from a computer, the function may cause the machine to end the print job before all of the data is received. In this case, set a longer timeout period (in seconds).
- If [Off] is selected, you will not be able to make copies until print jobs that use the Staple mode are complete.

NOTE

When a job is being processed, the Processing/Data indicator blinks on the control panel.

Finishing

Off, Collate, Offset+Collate, Offset+Group, Staple+Collate

This setting enables you to make printouts in sets arranged in page order, or in groups of each page as required. You can also staple printouts.

NOTE

The Offset and Staple modes are available only when the optional Staple Finisher-H1 is attached to the machine.

Off

This setting prints all copies of the same page before printing the next page.

Collate

This setting prints all pages of each copy before printing the next copy.

Offset+Collate

This setting prints all pages of each copy (collating), and offsets every other complete copy to indicate where each copy starts.

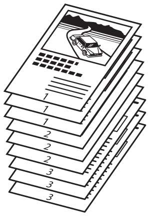
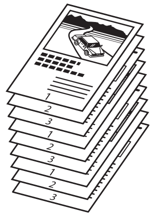
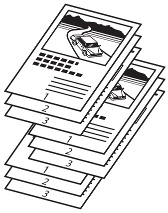
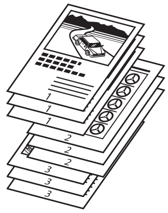
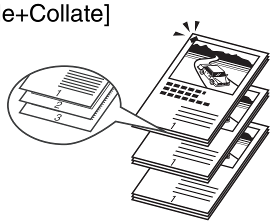
Offset+Group

This setting prints all copies of the same page before printing the next page. It offsets every other complete set of pages to indicate where each new set starts.

Staple+Collate

This setting prints all pages of each copy (collating), and staples them together before printing the next copy.

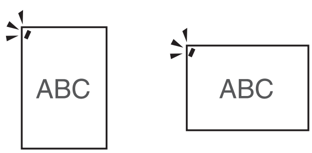
Examples of each Finishing option when printing three copies of a three page document are provided below.

[Off] 	[Collate] 
[Offset+Collate] 	[Offset+Group] 
[Staple+Collate] 	

NOTE

- Offset+Collate and Offset+Group are available for the following paper sizes: A4, B5, LTR, LGL, or EXEC.
- The Staple+Collate mode is available for selection if the paper size is A4, B5, LTR, LGL, or EXEC.
- You can use the 64 to 128 g/m^2 paper for stapling. The maximum number of sheets that can be stapled when you are using the 80 g/m^2 paper is 50 for A4, B5, LTR, LGL, and EXEC.

Staple position



Personality

Auto, PCL, PS

This setting enables the machine to process data received from the host computer in the specified data format. Setting the 'Personality' to [Auto] makes the machine determine the type of data received from the host on a job-by-job basis. If you are printing from applications on a computer, we recommend that you use the [Auto] setting.

NOTE

If the machine does not correctly switch to the appropriate personality when 'Personality' is set to [Auto], change the setting manually to match the data you are sending from the host computer.

Mode Priority

Off, PCL, PS

This setting determines which personality should be used if a job is received without a specified command language. 'Mode Priority' is available only when 'Personality' is set to [Auto].

[Off]:	Applies the current Personality setting if the machine cannot detect a command language.
[PCL]:	Assigns priority to the PCL personality.
[PS]:	Assigns priority to the PS personality.

Auto Select

PCL: **On**, Off
PS: **On**, Off

This setting determines which personality should be used when [Auto] is selected in the Personality setting.

If [On] is selected in each mode, the mode is available for the Personality setting.

If [Off] is selected in each mode, the mode is not available for the Personality setting.

Initialize

Off, On

The printer settings can be returned to the factory defaults by initializing the printer settings.

If [On] is selected, the settings are initialized. If [Off] is selected, the settings are not initialized.

IMPORTANT

Do not turn OFF the machine while the settings are being initialized, as this may damage the machine's memory.

PCL Settings

The PCL settings available with the machine are described below.

Paper Save

OFF, ON

This setting specifies whether to output a blank page when software does not send print data between End Page codes.

If [OFF] is selected, a blank page is output.

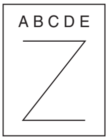
If [ON] is selected, a blank page is not output, thus saving paper.

Orientation

Portrait, Landscape

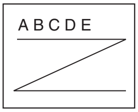
This setting enables you to set the paper orientation.

If [Portrait] is selected, the print image is printed in portrait orientation regardless of the orientation of the paper in the paper drawers.



Portrait

If [Landscape] is selected, the print image is printed in landscape orientation.



Landscape

Font Number

0 to 104; **0**

You can set the default font typeface for this printer function using the corresponding font numbers.

For typeface samples for each font number, see "Typeface Samples," on p. 6-20.

IMPORTANT

This setting is available for PCL5 printing only. PCL6 printing is not supported.

Point Size

4.00 to 999.75 point (in increments of 0.25 point); **12.00**

This setting enables you to specify the point size for the default font.

IMPORTANT

This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE

- This setting is available if a value from '1' to '78' is specified for the 'Font Number' option.
- Holding down [◀] or [▶] makes the values change faster.

Pitch

0.44 to 99.99 cpi (in increments of 0.01 cpi); **10.00**

This setting enables you to specify the pitch for the default font.

IMPORTANT

This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE

- This setting is available if a value of '0' or from '79' to '104' is specified for the 'Font Number' option.
- Holding down [◀] or [▶] makes the values change faster.

Form Lines

5 to 128 lines; **64**

This setting enables you to specify the number of lines to be printed on a page.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

Symbol Set

PC8, PC850, PC851, PC852, PC862, PC864, PC866, PC8DN, PC8GRK, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINARB, WINBALT, WINCYR, WINGRK, WINL1, WINL2, WINL5, ARABIC8, DESKTOP, GREEK8, HEBREW7, HEBREW8, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOCYR, ISOGRK, ISOHEB, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775

This setting enables you to select the symbol set most suited to the needs of the host computer.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

Custom Paper

Off, On

This setting enables you to specify a custom paper size. If [On] is selected, you can enter a custom size.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE
You can only select the custom paper size entered with settings from the printer driver.

Unit of Measure

Millimeters, Inches

This setting enables you to specify the unit of measurement to use to specify the custom paper size.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE
This function is available if [On] is selected in the Custom Paper setting.

X dimension

140.0 to 630.0 mm; **356.0**

This setting enables you to specify the horizontal size of the custom paper.

This function is useful when part of the printed image is cut off. Increasing this value may allow some of the missing text to be correctly printed. Make sure not to increase the value beyond the actual size of the paper you are using for printing.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE
- This function is available if [On] is selected in the Custom Paper setting.
- Holding down [◀] or [▶] makes the values change faster.

Y dimension

99.0 to 216.0 mm; **216.0**

This setting enables you to specify the vertical size of the custom paper.

This function is useful when part of the printed image is cut off, increasing this value may allow some of the missing text to be correctly printed. Make sure you do not increase the value beyond the actual size of the paper you are using for printing.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE

- This function is available if [On] is selected in the ‘Custom Paper’ setting.
- Holding down [◀] or [▶] makes the values change faster.

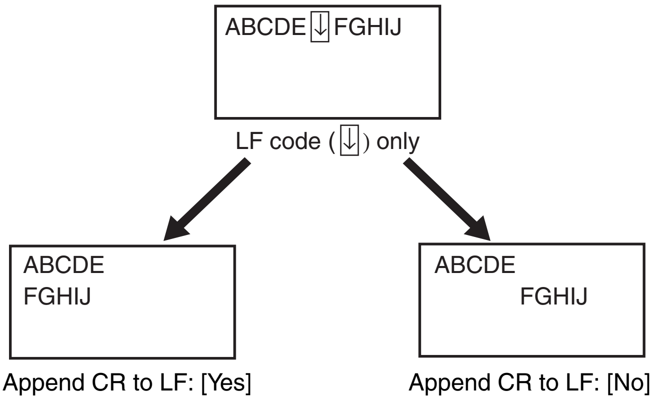
Append CR to LF

No, Yes

This setting enables you to specify whether to append a carriage return (CR) when a line feed code (LF) is received.

If [Yes] is selected, the print head moves to the beginning of the next line when a line feed code is received.

If [No] is selected, the print head moves down to the next line when a line feed code is received, and the margin does not change (such as to the beginning of the next line).



IMPORTANT

This setting is available for PCL5 printing only. PCL6 printing is not supported.

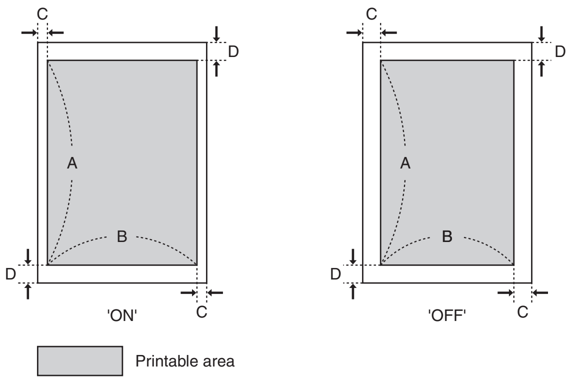
Widen A4 Print

Off, On

This setting determines whether to expand the printable area of A4 size paper to that of Letter size in width.

If [On] is selected, the entire area on a page 4.23 mm from the top and bottom edges and 1.28 mm from the left and right edges is available for printing on A4 paper. Only the width increases.

If [Off] is selected, the entire area on a page 4.23 mm from the top, bottom, left, and right edges is available for printing on A4 paper.



Settings	‘ON’	‘OFF’
A: Length	288.54 mm	
B: Width	207.44 mm	201.54 mm
C: Left and right edges	1.28 mm	4.23 mm
D: Top and bottom edges	4.23 mm	

IMPORTANT

This setting is available for PCL5 printing only. PCL6 printing is not supported.

NOTE

- This setting is available for A4 paper only.
- This setting is available for portrait orientation only.

Halftones

Text: **Resolution**, High Resolution, Tone, Gradation
Graphics: **Tone**, Gradation, Resolution, High Resolution
Image: **Tone**, Gradation, Resolution, High Resolution

This setting specifies how to express halftones in black and white data.

Print data is expressed in dots. Fine gradations, edges, and shades are expressed by using dither patterns, which are groups of dots. This is called halftone processing.

For example, using a pattern that sharpens character and line edges, or a pattern that smoothens image and graph gradation, enables you to obtain the most suitable texture.

[Tone]:	Select to print with sharp gradation and well-balanced texture, contrasting light and shade. Best for printing images.
[Gradation]:	Select to print with both smooth gradation and outlines. Best for printing graphs and graphics that use gradation.
[Resolution]:	Select to print text with distinct outlines. Best for printing text and thin lines.
[High Resolution]:	Select to print finer than with [Resolution], although toner stability is somewhat weaker. Best for printing small characters, fine lines, and outlines (such as from CAD data) sharply.

BarDIMM

Enable, Disable

This setting is available only when the BarDIMM function is activated.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

FreeScape

~, ", #, $, /, \, ?, {, }, |, OFF

This setting is available only when the BarDIMM function is activated.

IMPORTANT
This setting is available for PCL5 printing only. PCL6 printing is not supported.

PS Settings

The PS settings available with the machine are described below.

Job Timeout

0 to 3600 seconds (in increments of 1); **0s**

This setting enables you to specify the amount of time before a job times out. If a job has not finished within the set time limit, the job automatically cancels.

Wait Timeout

0 to 3600 seconds (in increments of 1); **300s**

This setting enables you to specify the amount of time the machine will wait for data sent from the host computer before it times out. If data is not received within the set time limit, the job automatically cancels.

Print PS Errors

Off, On

This setting determines whether an error page is printed when an error occurs.

Halftones

Text: **High Resolution**, Gradation, Resolution
Graphics: **Gradation**, Resolution, High Resolution
Image: **Gradation**, Resolution, High Resolution

This setting specifies how to express halftones in black and white data.

Print data is expressed in dots. Fine gradations, edges, and shades are expressed by using dither patterns, which are groups of dots. This is called halftone processing.

For example, using a pattern that sharpens character and line edges, or a pattern that smoothens image and graph gradation, enables you to obtain the most suitable texture.

[Gradation]:	Select to print with both smooth gradation and outlines. Best for printing graphs and graphics that use gradation.
[Resolution]:	Select to print text with distinct outlines. Best for printing text and thin lines.
[High Resolution]:	Select to print finer than with [Resolution], although toner stability is somewhat weaker. Best for printing small characters, fine lines, and outlines (such as from CAD data) sharply.

Ppr Size Override

Off, On

Paper of the size selected in the printer driver might not be loaded in any of the machine's paper drawers. If the Ppr Size Override setting is enabled, the machine will automatically substitute paper of an available size for the missing paper, as shown in the table below.

Printer Driver Setting	Substitute Paper
Letter	A4
A4	Letter

NOTE

The machine does not use substitute paper if the above substitute paper is not loaded in the machine's paper drawers.

Troubleshooting

5

CHAPTER

This chapter describes how to identify and solve problems you may face when operating the machine.

Identifying and Isolating Problems

You may experience problems while operating the machine. Take a minute to see if there is a simple solution to your problem before contacting your local authorized Canon dealer.

Printer Problems

Indicators are off and the display is blank.

Cause 1	Power switch is not turned ON.
Remedy	Check the power switch to ensure that the machine is turned ON.
Cause 2	Power cord is not connected.
Remedy	Check the power cord and make sure it is connected at both ends.
Cause 3	No power at the AC outlet.
Remedy	Check the AC outlet. Consult an electrician or the local power company. If you are using a power strip, ensure that the power lead is connected at the source and turned ON.

Printing does not start.

Cause 1	The output tray is full of paper during the print job. (When the optional Staple Finisher-H1 is set up, the tray is full of paper.)
Remedy	Remove the paper in the tray.
Cause 2	The machine and host computer are not properly connected.
Remedy	Check the cable connection between the host computer and the machine. (See Chapter 2, “Before You Start Using the Machine,” in the *User’s Guide*.)
Cause 3	A failure occurred in the machine or an optional device.
Remedy	Follow the instructions in the message on the touch panel display.

Cause 4	The paper size loaded in the drawer is different from the paper size you have set up in the application software, or the appropriate paper size you have set for enlarging or reducing the copy is not loaded.
Remedy 1	Change the paper in the selected drawer to the paper size you have set in the application software (or to the size you have set for enlarging/reducing copy), and then print again.
Remedy 2	Select the drawer with the appropriate paper size you have set up in the application software (or to the size you have set for enlarging/reducing copy), and then print again.
Cause 5	The paper in the drawer or the stack bypass has run out.
Remedy	Load more paper.

The machine does not work.

Cause	There is a problem with the machine or software.
Remedy	Follow the instructions in the message on the touch panel display.

You cannot print a job or store a job.

Cause	The total number of pages in all jobs has exceeded the limit which can be processed.
Remedy 1	Cancel other jobs, or wait until those jobs are finished, and then print again.
Remedy 2	Divide the job, and then print again.

Paper is excessively curled after coming out of the machine.

Cause	You may be using paper that curls too easily.
Remedy 1	Remove the paper stack, turn it over, reload it in the drawer and try again.
Remedy 2	Make sure that the paper meets the paper requirements. (See Chapter 7, “Appendix,” in the *Reference Guide*.)

High jam rates, incorrect feeding, or multiple sheet feed errors.

Cause	You may be using unsuitable paper.
Remedy	Always use paper that is suitable for the machine. (See Chapter 7, “Appendix,” in the *Reference Guide*.)

The service call (E730) appears when using the PS functions.

Cause A malfunction occurred when using the PS driver.

Remedy Restart the machine—turn OFF the machine, wait at least 10 seconds, and then turn it ON. (See Chapter 6, "Troubleshooting," in the *Reference Guide*.)

Printing Problems

Printer is not using the font you want.

Cause You have specified a font that is not available.

Remedy Check whether the font you specified is available with the machine. (See "Typeface Samples," on p. 6-20 and "Symbol Sets," on p. 6-33.)

One edge of the document is cut off.

Cause You are trying to print something outside the printable area of the page.

Remedy Use your software application to adjust the margins of the page. Make sure that your software application is not trying to print graphics or text outside the printable area. (See the application software manual.)

Printer is printing garbled text.

Cause 1 The printer selection you made when you set up or installed your software was incorrect.

Remedy Make sure that the correct printer is selected.

Cause 2 If different portions of the text are garbled every time you print, the USB cable may be too long, causing noise to corrupt the data.

Remedy A USB cable of 3 meters or shorter is recommended. If your USB cable is longer than this, replace it with a shorter one.

Cause 3 The machine is plugged into an outlet shared with another electrical device capable of generating noise, such as a photocopier, shredder or air conditioner.

Remedy Plug the machine into a different outlet or consult a qualified technician to install a noise filter.

Print Quality Problems

Printed text is faded or streaked with white.

Cause	The level of toner remaining in the toner cartridge may be low, or the toner may not be evenly distributed inside the cartridge.
Remedy	Replace the toner cartridge. (See Chapter 5, “Routine Maintenance,” in the *Reference Guide*.)

Printed pages are dirty or have white specks.

Cause	The fixing roller inside the fixing unit has become dirty with toner dust.
Remedy	Clean the fixing unit inside the machine. (See Chapter 5, “Routine Maintenance,” in the *Reference Guide*.)

The printout is too light or too dark.

Cause 1	The toner density settings are not correct.
Remedy	Adjust the toner density and print the data again. (See “Print Quality,” on p. 4-9.)
Cause 2	[Toner Save] is set to ‘On’.
Remedy	Set [Toner Save] to ‘Off’ and print the data again. (See “Toner Save,” on p. 4-9.)

Black spots appear on the front and back of the printed pages

Cause	The fixing roller inside the fixing unit may be dirty.
Remedy	Clean the fixing roller. (See Chapter 5, “Routine Maintenance,” in the *Reference Guide*.)

Black stripes appear on multiple sheets in sequence.

Cause	The toner cartridge is old or damaged.
Remedy	Contact your local authorized Canon dealer.

Appendix

6
CHAPTER

This chapter summarizes the machine's specifications and includes the index.

Printer Settings Menu

The table below lists all settings of the Printer Settings menu. The default settings are indicated in bold.

■ **Settings Menu**

Additional Functions	Available Settings	Applicable Page
Default PapaerSize	**A4**, B5, A5, LGL, LTR, STMT, EXECUTIV, No. 10 (COM10), MONARCH, ISO-C5, ISO-B5, DL	p. 4-7
Default PaperType	**Plain**, Color, Recycled, Heavy Paper 1, Transparency, Bond, Labels, 3Hole Punch Paper, Envelope	p. 4-8
Copies	1 to 999; **1**	p. 4-8
2-Sided Printing	**Off**, On	p. 4-8
Print Quality		
Image Refinement	**On**, Off	p. 4-9
Density	9 levels; **5**	p. 4-9
Toner Save	**Off**, On	p. 4-9
Line Refinement	**On**, Off	p. 4-10
Horizontal Line	**Off**, Level 1, Level 2, Level 3, Level 4	p. 4-10
Vertical Line	**Off**, Level 1, Level 2, Level 3, Level 4	p. 4-10
Layout		
Binding Location	**Long Edge**, Short Edge	p. 4-11
Margin	-50.0 to +50.0mm; **0.0mm**	p. 4-12
Auto Continue	**Off**, On	p. 4-13
Timeout	**On** (5 to 300sec), Off; **15sec**	p. 4-14

Additional Functions	Available Settings	Applicable Page
Finishing	**Off**, Collate, Offset+Collate*, Offset+Group*, Staple+Collate*	p. 4-15
Personality	**Auto**, PCL, PS	p. 4-17
Mode Priority	**Off**, PCL, PS	p. 4-17
Auto Select		
PCL	**On**, Off	p. 4-17
PS	**On**, Off	
Initialize	**Off**, On	p. 4-18

* The Offset and Staple modes are available only when the optional Staple Finisher-H1 is attached to the machine.

■ PCL Settings

Additional Functions	Available Settings	Applicable Page
Paper Save	**OFF**, ON	p. 4-19
Orientation	**Portrait**, Landscape	p. 4-19
Font Number	0 to 104; **0**	p. 4-20
Point Size	4.00 to 999.75 point; **12.00**	p. 4-20
Pitch	0.44 to 99.99 cpi; **10.00**	p. 4-20
Form Lines	5 to 128 lines; **64**	p. 4-21
Symbol Set	**PC8**, PC850, PC851, PC852, PC862, PC864, PC866, PC8DN, PC8GRK, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINARB, WINBALT, WINCYR, WINGRK, WINL1, WINL2, WINL5, ARABIC8, DESKTOP, GREEK8, HEBREW7, HEBREW8, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOCYR, ISOGRK, ISOHEB, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775	p. 4-21
Custom Paper	**Off**, On	p. 4-21
Unit of Measure	**Millimeters**, Inches	p. 4-22
X dimension	140.0 to 630.0 mm; **356.0**	p. 4-22
Y dimension	99.0 to 216.0 mm; **216.0**	p. 4-22
Append CR to LF	**No**, Yes	p. 4-23
Widen A4 Print	**Off**, On	p. 4-24

Additional Functions	Available Settings	Applicable Page
Halftones		
Text	**Resolution**, High Resolution, Tone, Gradation	p. 4-25
Graphics	**Tone**, Gradation, Resolution, High Resolution	p. 4-25
Image	**Tone**, Gradation, Resolution, High Resolution	p. 4-25
BarDIMM*	**Enable**, Disable	*Bar Code Printing Guide*
FreeScape	~, ", #, $, /, \, ?, {, }, |, OFF	*Bar Code Printing Guide*

* The BarDIMM function is available only when it is activated.

■ PS Settings

Additional Functions	Available Settings	Applicable Page
Job Timeout	0 to 3600 seconds; **0s**	p. 4-26
Wait Timeout	0 to 3600 seconds; **300s**	p. 4-26
Print PS Errors	**Off**, On	p. 4-26
Halftones		
Text	**High Resolution**, Gradation, Resolution	p. 4-27
Graphics	**Gradation**, Resolution, High Resolution	p. 4-27
Image	**Gradation**, Resolution, High Resolution	p. 4-27

■ Other Settings

Additional Functions	Available Settings	Applicable Page
Ppr Size Override	**Off**, On	p. 4-28

Some Basic Facts about Fonts

This section summarizes some of the basic facts you should know about fonts.

What Is a Font?

A font is a collection of letters and symbols used when printing a document. In general, a group of letters and symbols sharing a common design is referred to as a font. A font consists of the letters A to Z in both upper and lowercase, as well as numerals and symbols.

The design that distinguishes one font from another is referred to as a “typeface.” Each font has a typeface name, such as Courier, CG Times, Letter Gothic, etc.

Attributes of Fonts

All fonts share some common characteristics, called “attributes.” The typeface is one such attribute. The letters and symbols that are actually printed are determined by these attributes.

Typeface	The design of the letters (e.g. Courier, CG Times, Helvetica, or Gothic).
Stroke Weight	The thickness of the lines with which the letters are drawn (e.g. bold, medium, or light).
Style	Whether the letters are drawn straight or at an angle (e.g. upright or italic).
Point Size	Height of the letters (e.g. 10 point or 5 point).
Pitch (cpi)	Number of characters that are printed in one inch (e.g. 10 cpi, 12 cpi, or Scale).
Character Width (Fixed/ PS)	Indicates whether the character width is set to “Fixed” or “Proportional.”
Orientation	Orientation of the characters on a page (“Portrait” or “Landscape”).
Symbol Set	The rule that defines the correspondence between the character codes coming from the host computer, and the letter forms that appear on the page (e.g. Roman-8).

Typeface

Typeface refers to the design of the characters and symbols. The following figure shows an example of some typefaces.

Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Stroke Weight

Stroke weight refers to the thickness of the print. There are light, medium, and bold stroke weights. The printer function has medium and bold fonts available. The figure below shows an example of medium and bold printing.

MEDIUM MEDIUM MEDIUM

BOLD BOLD BOLD BOLD BOLD

Style

Style refers to the shape of the characters. The printer function can print in two styles: upright and italic.

With some fonts, like CourierPS and Letter Gothic, the terms “Oblique” and “Slanted” are used in the same manner as italics.

UPRIGHT UPRIGHT UPRIGHT

ITALIC ITALIC ITALIC

Point Size

Point size refers to the height of the character. Character size is measured in points. One inch is divided into 72 points and 1 point is 1/72 of an inch (about 0.35 mm). The printer function has bitmapped fonts and scalable fonts available. The bitmapped fonts are fixed in size, but the scalable fonts are not fixed in size. Scalable fonts are freely scalable to any size you wish in 0.1 point increments. The following figure shows an example of various point sizes.

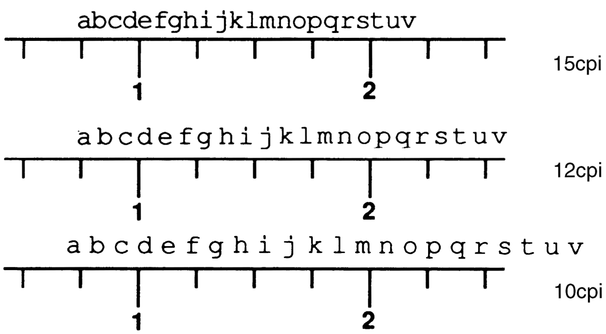
CGTimes 7pt
CGTimes 8pt
CGTimes 9pt
CGTimes 10pt
CGTimes 11pt
CGTimes 12pt
CGTimes 14pt
CGTimes 18pt
CGTimes 24pt

NOTE

See “Fonts and Scalable Fonts,” on p. 6-10, for more information on bitmapped fonts and scalable fonts.

Pitch (cpi)

Pitch refers to the number of characters that are printed in one inch. The unit is cpi (characters per inch). As the number of characters per inch increases, the space between characters decreases; as the cpi decreases, the space between characters increases.



Character Width (Fixed and PS)

Each character has a different width from all the other characters in a font at a given point size. For example, “W” is a wider letter than “I.” There are two ways to print letters of different widths: you can print all letters with the same spacing, regardless of their actual width; or you can change the spacing between letters to accommodate these different widths. Printing all letters with the same spacing is called “Fixed spacing,” while changing the spacing to accommodate different letter widths is called “Proportional spacing.”

Because the Fixed spacing method prints all letters with the same spacing, the number of characters which will fit into a given length is a fixed quantity which can be specified.

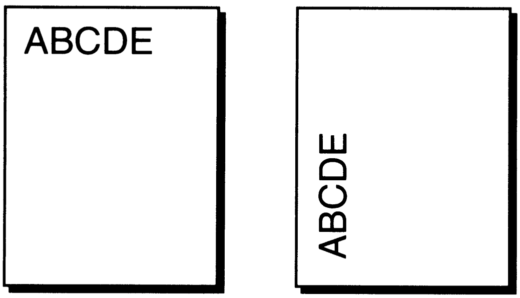
If the characters are printed with Proportional spacing, then the number of characters that will fit into an inch varies depending on the letters printed.



Proportional spacing   Fixed spacing

Orientation

Orientation refers to the direction of printing. The printer function can print using two different paper orientations: portrait and landscape. With portrait orientation, text is printed across the width of the paper (short edge), and with landscape orientation, text is printed across the length of the paper (long edge).

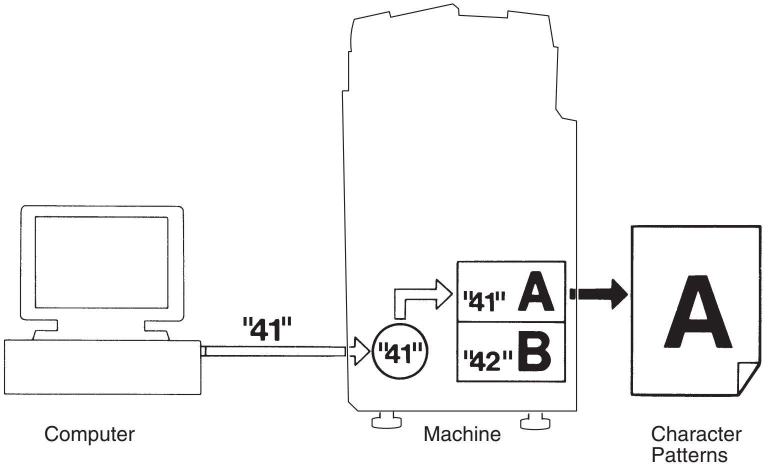


Portrait   Landscape

Symbol Set

When you print the letter “A,” the host computer sends a code corresponding to “A” (hexadecimal 41 is an example of this) to the machine. This code is referred to as the character code. The machine stores an internal representation of each character, and selects from among these character patterns the pattern corresponding to the received code. In this case, the machine searches for the pattern for “A,” and prints it.

■ **The process by which letters are printed**



The machine uses a fixed rule to decide which letter or symbol corresponds to the character code sent from the host computer. For example, the letter “A” is printed for the hexadecimal code “41.” The rule which determines the correspondence between character codes and printed letters is called the “symbol set.”

Fonts and Scalable Fonts

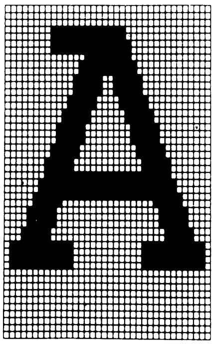
There are two types of fonts available, and these fonts are distinguished by the type of data from which they are formed.

- Bitmapped fonts
- Scalable fonts

Bitmapped Fonts

Each character of bitmapped fonts are composed of a grid of small dots and stored in the machine's memory in dot matrix format.

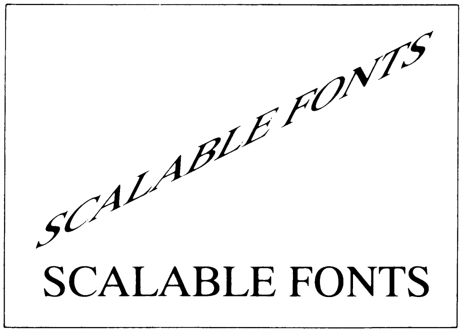
Bitmapped fonts are fixed in size and specified by characteristics called "attributes," such as typeface, stroke weight, style and so on. Various types of bitmapped fonts are produced by the combination of these attributes.



Scalable Fonts

With scalable fonts, characters are freely enlarged or compressed from the one point to any size you wish in 0.1 point increments.





Standard Scalable and OCR Sets Fonts (PCL)

With scalable fonts, characters are freely enlarged or compressed from one point to any size you wish in 0.1 point increments. (The maximum range of scaling depends on the size of the memory installed in the machine and the size of the paper used.)

The following scalable typefaces are included with the machine.

Font Number	Font Name
0	Courier
1	CG Times
2	CG Times Bold
3	CG Times Italic
4	CG Times Bold Italic
5	CG Omega
6	CG Omega Bold
7	CG Omega Italic
8	CG Omega Bold Italic
9	Coronet
10	Clarendon Condensed Bold
11	Univers Medium
12	Univers Bold
13	Univers Medium Italic
14	Univers Bold Italic
15	Univers Medium Condensed
16	Univers Bold Condensed
17	Univers Medium Condensed Italic
18	Univers Bold Condensed Italic
19	Antique Olive
20	Antique Olive Bold
21	Antique Olive Italic
22	Garamond Antiqua
23	Garamond Halbfett
24	Garamond Kursiv
25	Garamond Kursiv Halbfett
26	Marigold
27	Albertus Medium
28	Albertus Extra Bold
29	Ryadh

Font Number	Font Name
30	Ryadh Bold
31	Malka
32	Malka Bold
33	Malka Italic
34	Dorit
35	Dorit Bold
36	Naamit
37	Naamit Bold
38	Arial
39	Arial Bold
40	Arial Italic
41	Arial Bold Italic
42	Times New Roman
43	Times New Roman Bold
44	Times New Roman Italic
45	Times New Roman Bold Italic
46	Helvetica
47	Helvetica Bold
48	Helvetica Oblique
49	Helvetica Bold Oblique
50	Helvetica Narrow
51	Helvetica Narrow Bold
52	Helvetica Narrow Oblique
53	Helvetica Narrow Bold Oblique
54	Palatino Roman
55	Palatino Bold
56	Palatino Italic
57	Palatino Bold Italic
58	ITC Avant Garde Gothic Book
59	ITC Avant Garde Gothic Demi
60	ITC Avant Garde Gothic Book Oblique
61	ITC Avant Garde Gothic Demi Oblique
62	ITC Bookman Light
63	ITC Bookman Demi
64	ITC Bookman Light Italic

Font Number	Font Name
65	ITC Bookman Demi Italic
66	New century Schoolbook Roman
67	New century Schoolbook Bold
68	New century Schoolbook Italic
69	New century Schoolbook Bold Italic
70	Times Roman
71	Times Bold
72	Times Italic
73	Times Bold Italic
74	ITC Zapf Chancery Medium Italic
75	Symbol
76	SymbolPS
77	Wingdings
78	ITC Zapf Dingbats
79	Courier Bold
80	Courier Italic
81	Courier Bold Italic
82	Letter Gothic
83	Letter Gothic Bold
84	Letter Gothic Italic
85	Naskh
86	Naskh Bold
87	Koufi
88	Koufi Bold
89	CourierPS
90	CourierPS Bold
91	CourierPS Oblique
92	CourierPS Bold Oblique
93	OCR-A
94	OCR-B
95	Line Printer
96	Line Printer
97	Line Printer
98	Line Printer
99	Line Printer

Font Number	Font Name
100	Line Printer
101	Line Printer
102	Line Printer
103	Line Printer
104	Line Printer

Symbol Sets (For Scalable Typefaces Only)

The following symbol sets are included with the machine.

ASCII (ISO6)
Arabic-8(ARABIC8)
DeskTop
Dingbats (14L)
Greek-8(GREEK8)
Hebrew-7(HEBREW7)
Hebrew-8(HEBREW8)
ISO 8859-1 Latin1
ISO 8859-10 Latin 6
ISO 8859-2 Latin 2
ISO 8859-9 Latin 5
ISO 8859-5 Latin/Cyrillic(ISOCYR)
ISO 8859-7 Latin/Greek (ISOGRK)
ISO 8859-8 Latin/Hebrew(ISOHEB)
ISO French (ISO69)
ISO German (ISO21)
ISO Italian (ISO15)
ISO Latin 9 *
ISO Norwegian (ISO60)
ISO Spanish (ISO17)
ISO Swedish:names (ISO11)
ISO United Kingdom (ISO4)
Legal
Math-8
MC Text *
Microsoft Publishing
OCR-A
OCR-B
PC-1004 (OS/2)
PC-775
PC-8
PC-8 D/N
PC-8 Greek CP437
PC-8 Greek(PC8GRK)
PC-850
PC-851
PC-852
PC-858 *
PC-860 Portugal
PC-862
PC-864
PC-865 Norway
PC-866
PC-Turkish
Pi Font
PS Math *
PS Text
Roman-8
Roman 9 *
Symbol
Ventura International
Ventura Math
Ventura US
Windows 3.0 Latin 1 *
Windows Baltic *
Windows 3.1 Latin 1 *
Windows 3.1 Latin 2 *
Windows 3.1 Latin 5 *
Windows Arabic (WINARB)
Windows Latin/Cyrillic (WINCYR)
Windows Latin/Greek (WINGRK)
Wingdings

* Supports the euro symbol.

PS Fonts

AlbertusMT
AlbertusMT-Italic
AlbertusMT-Light
AntiqueOlive-Bold
AntiqueOlive-Compact
AntiqueOlive-Italic
AntiqueOlive-Roman
AntiqueOliveCE-Bold
AntiqueOliveCE-Compact
AntiqueOliveCE-Italic
AntiqueOliveCE-Roman
Apple-Chancery
Apple-ChanceryCE
Arial-BoldItalicMT
Arial-BoldMT
Arial-ItalicMT
ArialCE
ArialCE-Bold
ArialCE-BoldItalic
ArialCE-Italic
ArialMT
AvantGarde-Book
AvantGarde-BookOblique
AvantGarde-Demi
AvantGarde-DemiOblique
AvantGardeCE-Book
AvantGardeCE-BookOblique
AvantGardeCE-Demi
AvantGardeCE-DemiOblique
Bodoni
Bodoni-Bold
Bodoni-BoldItalic
Bodoni-Italic
Bodoni-Poster
Bodoni-PosterCompressed
BodoniCE
BodoniCE-Bold
BodoniCE-BoldItalic
BodoniCE-Italic
BodoniCE-Poster
BodoniCE-PosterCompressed
Bookman-Demi
Bookman-DemiItalic
Bookman-Light
Bookman-LightItalic
BookmanCE-Demi
BookmanCE-DemiItalic
BookmanCE-Light
BookmanCE-LightItalic
Candid
Chicago
ChicagoCE
Clarendon
Clarendon-Bold
Clarendon-Light
ClarendonCE
ClarendonCE-Bold
ClarendonCE-Light
CooperBlack
CooperBlack-Italic
Copperplate-ThirtyThreeBC
Copperplate-ThirtyTwoBC
Coronet-Regular
CoronetCE-Regular
Courier
Courier-Bold
Courier-Oblique
CourierCE
CourierCE-Bold
CourierCE-BoldOblique
CourierCE-Oblique
Courier-BoldOblique
Eurostile
Eurostile-Bold
Eurostile-BoldExtendedTwo
Eurostile-ExtendedTwo

EurostileCE
EurostileCE-Bold
EurostileCE-BoldExtendedTwo
EurostileCE-ExtendedTwo
Geneva
GenevaCE
GillSans
GillSans-Bold
GillSans-BoldCondensed
GillSans-BoldItalic
GillSans-Condensed
GillSans-ExtraBold
GillSans-Italic
GillSans-Light
GillSans-LightItalic
GillSansCE-Bold
GillSansCE-BoldCondensed
GillSansCE-BoldItalic
GillSansCE-Condensed
GillSansCE-ExtraBold
GillSansCE-Italic
GillSansCE-Light
GillSansCE-LightItalic
GillSansCE-Roman
Goudy
Goudy-Bold
Goudy-BoldItalic
Goudy-ExtraBold
Goudy-Italic
Helvetica
Helvetica-Bold
Helvetica-BoldOblique
Helvetica-Condensed
Helvetica-Oblique
Helvetica-Condensed-Bold
Helvetica-Condensed-BoldObl
Helvetica-Condensed-Oblique
Helvetica-Narrow
Helvetica-Narrow-Bold
Helvetica-Narrow-BoldOblique
Helvetica-Narrow-Oblique
HelveticaCE
HelveticaCE-Bold
HelveticaCE-BoldOblique
HelveticaCE-Cond
HelveticaCE-CondBold
HelveticaCE-CondBoldObl
HelveticaCE-CondObl
HelveticaCE-Narrow
HelveticaCE-NarrowBold
HelveticaCE-NarrowBoldOblique
HelveticaCE-NarrowOblique
HelveticaCE-Oblique
HoeflerText-Black
HoeflerText-BlackItalic
HoeflerText-Italic
HoeflerText-Ornaments
HoeflerText-Regular
HoeflerTextCE-Black
HoeflerTextCE-BlackItalic
HoeflerTextCE-Italic
HoeflerTextCE-Regular
JoannaMT
JoannaMT-Bold
JoannaMT-BoldItalic
JoannaMT-Italic
JoannaMTCE
JoannaMTCE-Bold
JoannaMTCE-BoldItalic
JoannaMTCE-Italic
LetterGothic
LetterGothic-Bold
LetterGothic-BoldSlanted
LetterGothic-Slanted
LetterGothicCE
LetterGothicCE-Bold
LetterGothicCE-BoldSlanted
LetterGothicCE-Slanted
LubalinGraph-Book
LubalinGraph-BookOblique
LubalinGraph-Demi
LubalinGraph-DemiOblique
LubalinGraphCE-Book
LubalinGraphCE-BookOblique
LubalinGraphCE-Demi
LubalinGraphCE-DemiOblique
Marigold
Monaco
MonacoCE
MonaLisa-Recut
NewCenturySchlbk-Bold
NewCenturySchlbk-BoldItalic
NewCenturySchlbk-Italic
NewCenturySchlbk-Roman
NewCenturySchlbkCE-Bold
NewCenturySchlbkCE-BoldItalic

NewCenturySchlbkCE-Italic
NewCenturySchlbkCE-Roman
NewYork
NewYorkCE
Optima
Optima-Bold
Optima-BoldItalic
Optima-Italic
OptimaCE-Bold
OptimaCE-BoldItalic
OptimaCE-Italic
OptimaCE-Roman
Oxford
Palatino-Bold
Palatino-BoldItalic
Palatino-Italic
Palatino-Roman
PalatinoCE-Bold
PalatinoCE-BoldItalic
PalatinoCE-Italic
PalatinoCE-Roman
StempelGaramond-Bold
StempelGaramond-BoldItalic
StempelGaramond-Italic
StempelGaramond-Roman
StempelGaramondCE-Bold
StempelGaramondCE-BoldItalic
StempelGaramondCE-Italic
StempelGaramondCE-Roman
Symbol
Taffy
Times-Bold
Times-BoldItalic
Times-Italic
Times-Roman
TimesCE-Bold
TimesCE-BoldItalic
TimesCE-Italic
TimesCE-Roman
TimesNewRomanCE
TimesNewRomanCE-Bold
TimesNewRomanCE-BoldItalic
TimesNewRomanCE-Italic
TimesNewRomanPS-BoldItalicMT
TimesNewRomanPS-BoldMT
TimesNewRomanPS-ItalicMT
TimesNewRomanPSMT
Univers-Bold
Univers
Univers-BoldExt
Univers-BoldExtObl
Univers-BoldOblique
Univers-Oblique
Univers-Condensed
Univers-CondensedBold
Univers-CondensedBoldOblique
Univers-CondensedOblique
Univers-Extended
Univers-ExtendedObl
Univers-Light
Univers-LightOblique
UniversCE-Bold
UniversCE-BoldExt
UniversCE-BoldExtObl
UniversCE-BoldOblique
UniversCE-Condensed
UniversCE-CondensedBold
UniversCE-CondensedBoldOblique
UniversCE-CondensedOblique
UniversCE-Extended
UniversCE-ExtendedObl
UniversCE-Light
UniversCE-LightOblique
UniversCE-Medium
UniversCE-Oblique
Windings-Regular
ZapfChanceryCE-MediumItali
ZapfChancery-MediumItalic
ZapfDingbats

Typeface Samples

For PCL

Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
CG Times Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
CG Times Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
CG Omega	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
CG Omega Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
CG Omega Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Coronet	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Clarendon Condensed Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers Medium Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers Medium Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Condensed	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers Medium Condensed Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers Bold Condensed Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Antique Olive	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Antique Olive Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Garamond Antiqua	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Halbfett	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Garamond Kursiv	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

Garamond Kursiv Halbfett	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Extra Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Ryadh	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Ryadh Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Malka	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Malka Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Malka Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Dorit	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Dorit Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Naamit	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naamit Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Arial	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Arial Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Arial Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Times New Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Roman Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Times New Roman Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Times New Roman Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica Bold Oblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***

Helvetica Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica Narrow Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica Narrow Bold Oblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Palatino Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Palatino Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Palatino Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
ITC Avant Garde Gothic Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
ITC Avant Garde Gothic Book Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ITC Avant Garde Gothic Demi Oblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
ITC Bookman Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
ITC Bookman Light Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ITC Bookman Demi Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
New Century Schoolbook Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
New Century Schoolbook Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
New Century Schoolbook Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Times Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Times Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Times Bold Italic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
ITC Zapf Chancery Medium Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

Font	Sample
Symbol	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
SymbolPS	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
Wingdings	✌👌👍👎☜☞☝☟✋☺😐☹💣☠⚐🏱✈☼💧❄✞✞✠✡☪
ITC Zapf Dingbats	✡✢✣✤✥✦✧★✩✪✫✬✭✮✯✰✱✲✳✴✵✶✷✸✹✺
Courier Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naskh	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Naskh Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Koufi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Koufi Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
OCR-A	ABCDEFGHIJKLMNOPQRSTUVWXYZ
OCR-B	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Line Printer	ABCDEFGHIJKíóúñÑªº¿⌐¬½¼¡«»
Line Printer	ABCDEFGHIJKÀÂÈÊËÎÏ´`ˆ¨˜ÙÛ£
Line Printer	ABCDEFGHIJK¡¢£¤¥¦§¨©ª«¬-®¯
Line Printer	ABCDEFGHIJKíóúñÑõÕ¿ãÃℓń¡³¤
Line Printer	ABCDEFGHIJKíóúñÑªº¿®¬½¼¡«»
Line Printer	ABCDEFGHIJK
Line Printer	ABCDEFGHIJKĄ˘Ł¤ĽŚ§¨ŠŞŤŹ-ŽŻ
Line Printer	ABCDEFGHIJK¡¢£¤¥¦§¨©ª«¬-®¯
Line Printer	ABCDEFGHIJKĄĒĢĪĨĶ§ĻĐŠŦŽ-ŪŊ
Line Printer	ABCDEFGHIJK¡¢£€¥Š§š©ª«¬-®¯

For PS

AlbertusMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AlbertusMT-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
AlbertusMT-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
AntiqueOlive-Compact	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
AntiqueOlive-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
AntiqueOlive-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
AntiqueOliveCE-Compact	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
AntiqueOliveCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
AntiqueOliveCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Apple-Chancery	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Apple-ChanceryCE	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Arial-BoldItalicMT	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Arial-BoldMT	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Arial-ItalicMT	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ArialCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
ArialCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
ArialCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ArialMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde-Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde-BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
AvantGarde-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
AvantGarde-DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
AvantGardeCE-Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE-BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
AvantGardeCE-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**

AvantGardeCE-DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Bodoni	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Bodoni-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Bodoni-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Bodoni-Poster	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Bodoni-PosterCompressed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
BodoniCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
BodoniCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
BodoniCE-Poster	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
BodoniCE-PosterCompressed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Bookman-DemiItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Bookman-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman-LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
BookmanCE-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
BookmanCE-DemiItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
BookmanCE-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BookmanCE-LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Candid	
Chicago	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ChicagoCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Clarendon-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ClarendonCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Font	Sample
ClarendonCE-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ClarendonCE-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CooperBlack	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CooperBlack-Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Copperplate-ThirtyThreeBC	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Copperplate-ThirtyTwoBC	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Coronet-Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CoronetCE-Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier-BoldOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier-Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE-BoldOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE-Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile-BoldExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile-ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE-BoldExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE-ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Geneva	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GenevaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ

GillSans-BoldCondensed	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSans-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
GillSans-Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans-ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSans-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSans-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans-LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSansCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE-BoldCondensed	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
GillSansCE-Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE-ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSansCE-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE-LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSansCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Goudy-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Goudy-ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Goudy-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica-BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica-Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica-Condensed-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica-Condensed-BoldObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica-Condensed-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

Font	Sample
Helvetica-Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica-Narrow-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica-Narrow-BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica-Narrow-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE-BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HelveticaCE-Cond	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE-CondBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE-CondBoldObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HelveticaCE-CondObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE-Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE-NarrowBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE-NarrowBoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HelveticaCE-NarrowOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerText-Black	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HoeflerText-BlackItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HoeflerText-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerText-Ornaments	
HoeflerText-Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HoeflerTextCE-Black	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HoeflerTextCE-BlackItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HoeflerTextCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerTextCE-Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMT-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**

JoannaMT-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
JoannaMT-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
JoannaMTCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMTCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
JoannaMTCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
JoannaMTCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LetterGothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothic-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LetterGothic-BoldSlanted	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LetterGothic-Slanted	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LetterGothicCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LetterGothicCE-BoldSlanted	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LetterGothicCE-Slanted	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LubalinGraph-Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraph-BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LubalinGraph-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LubalinGraph-DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LubalinGraphCE-Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraphCE-BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LubalinGraphCE-Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LubalinGraphCE-DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Monaco	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonacoCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonaLisa-Recut	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbk-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
NewCenturySchlbk-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***

NewCenturySchlbk-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
NewCenturySchlbk-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbkCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
NewCenturySchlbkCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
NewCenturySchlbkCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
NewCenturySchlbkCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewYork	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewYorkCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Optima	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Optima-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Optima-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Optima-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
OptimaCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
OptimaCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
OptimaCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
OptimaCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Oxford	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Palatino-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Palatino-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Palatino-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
PalatinoCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
PalatinoCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
PalatinoCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
PalatinoCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
StempelGaramond-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
StempelGaramond-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
StempelGaramond-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

StempelGaramond-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
StempelGaramondCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
StempelGaramondCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
StempelGaramondCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
StempelGaramondCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Symbol	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
Taffy	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Times-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Times-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Times-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TimesCE-Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesNewRomanCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesNewRomanCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesNewRomanCE-BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesNewRomanCE-Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TimesNewRomanPS-BoldItalicMT	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesNewRomanPS-BoldMT	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesNewRomanPS-ItalicMT	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TimesNewRomanPSMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers-BoldExt	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers-BoldExtObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers-BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***

Font	Sample
Univers-Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers-CondensedBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers-CondensedBoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers-CondensedOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers-Extended	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers-ExtendedObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers-LightOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE-Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
UniversCE-BoldExt	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
UniversCE-BoldExtObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE-BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE-Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE-CondensedBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
UniversCE-CondensedBoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE-CondensedOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE-Extended	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE-ExtendedObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE-Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE-LightOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE-Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE-Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Windings-Regular	✌👌👍👎☜☞☝☟✋☺😐☹💣☠⚐🏱✈☼💧❄🕆✞🕈✠✡☪
ZapfChancery-MediumItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ZapfChanceryCE-MediumItali	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ZapfDingbats	✡✢✣✤✥✦✧★✩✪✫✬✭✮✯✰✱✲✳✴✵✶✷✸✹✺

Symbol Sets

ARABIC8

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ISO Swedish

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ISO Italian

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ISO Spanish

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Appendix

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ISO 8859-1 Latin 1

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Appendix

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Appendix

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5	♣	§	%	5	E	U	e	u	ו	ץ	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	ז	צ	ª	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ח	ק	º	╖	╟	╫	τ	≈
8	◘	↑	(	8	H	X	h	x	ט	ר	¿	╕	╚	╪	Φ	°
9	○	↓	)	9	I	Y	i	y	י	ש	⌐	╣	╔	┘	Θ	∙
A	◙	→	*	:	J	Z	j	z	ך	ת	¬	║	╩	┌	Ω	·
B	♂	←	+	;	K	[	k	{	כ	¢	½	╗	╦	█	δ	√
C	♀	∟	,	<	L	\	l	|	ל	£	¼	╝	╠	▄	∞	ⁿ
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Appendix

PC-864

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2	♪	↕	"	2	B	R	b	r	∙	φ	ﺂ	٢	ﺁ	ﺯ	ﻗ	ﻥ
3	♫	‼	#	3	C	S	c	s	√	±	£	٣	ﺃ	ﺳ	ﻛ	ﻩ
4	☼	¶	$	4	D	T	d	t	▒	½	¤	٤	ﺅ	ﺷ	ﻟ	ﻬ
5	═	§	٪	5	E	U	e	u	─	¼	ﺄ	٥	ﻊ	ﺻ	ﻣ	ﻰ
6	║	▬	&	6	F	V	f	v	│	≈		٦	ﺋ	ﺿ	ﻧ	ﻲ
7	╬	↨	'	7	G	W	g	w	┼	«		٧	ﺍ	ﻃ	ﻫ	ﻐ
8	╣	↑	(	8	H	X	h	x	┤	»	ﺎ	٨	ﺑ	ﻇ	ﻭ	ﻕ
9	╦	↓	)	9	I	Y	i	y	┬	ﻷ	ﺏ	٩	ﺓ	ﻋ	ﻯ	ﻵ
A	╠	→	*	:	J	Z	j	z	├	ﻸ	ﺕ	ﻑ	ﺗ	ﻏ	ﻳ	ﻶ
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C	╗	∟	,	<	L	\	l	|	┐		،	ﺱ	ﺟ	¬	ﻌ	ﻙ
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PC-866

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2	☻	↕	"	2	B	R	b	r	В	Т	в	▓	┬	╥	т	Є
3	♥	‼	#	3	C	S	c	s	Г	У	г	│	├	╙	у	є
4	♦	¶	$	4	D	T	d	t	Д	Ф	д	┤	─	╘	ф	Ї
5	♣	§	%	5	E	U	e	u	Е	Х	е	╡	┼	╒	х	ї
6	♠	▬	&	6	F	V	f	v	Ж	Ц	ж	╢	╞	╓	ц	Ў
7	•	↨	'	7	G	W	g	w	З	Ч	з	╖	╟	╫	ч	ў
8	◘	↑	(	8	H	X	h	x	И	Ш	и	╕	╚	╪	ш	°
9	○	↓	)	9	I	Y	i	y	Й	Щ	й	╣	╔	┘	щ	∙
A	◙	→	*	:	J	Z	j	z	К	Ъ	к	║	╩	┌	ъ	·
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PC-8 D/N

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1	☺	◄	!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	ß	±
2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	å	û	õ	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	Õ	╖	╟	╫	τ	≈
8	◘	↑	(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	ã	╣	╔	┘	Θ	∙
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PC-Turkish

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2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	å	û	Ğ	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	ğ	╖	╟	╫	τ	≈
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9	○	↓	)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	∙
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PC8GRK

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1	☺	◄	!	1	A	Q	a	q	Β	Σ	κ	▒	┴	╤	ά	±
2	☻	↕	"	2	B	R	b	r	Γ	Τ	λ	▓	┬	╥	έ	≥
3	♥	‼	#	3	C	S	c	s	Δ	Υ	μ	│	├	╙	ή	≤
4	♦	¶	$	4	D	T	d	t	Ε	Φ	ν	┤	─	╘	ϊ	⌠
5	♣	§	%	5	E	U	e	u	Ζ	Χ	ξ	╡	┼	╒	ί	⌡
6	♠	▬	&	6	F	V	f	v	Η	Ψ	ο	╢	╞	╓	ό	÷
7	•	↨	'	7	G	W	g	w	Θ	Ω	π	╖	╟	╫	ύ	≈
8	◘	↑	(	8	H	X	h	x	Ι	α	ρ	╕	╚	╪	ϋ	°
9	○	↓	)	9	I	Y	i	y	Κ	β	σ	╣	╔	┘	ώ	∙
A	◙	→	*	:	J	Z	j	z	Λ	γ	ς	║	╩	┌	Ω	·
B	♂	←	+	;	K	[	k	{	Μ	δ	τ	╗	╦	█	δ	√
C	♀	∟	,	<	L	\	l	|	Ν	ε	υ	╝	╠	▄	∞	ⁿ
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PC-1004

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3			#	3	C	S	c	s		“	£	³	Ã	Ó	ã	ó
4	¯		$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô
5	˘		%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ
6	˙		&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8	˚		(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
A	˝		*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú
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Pi Font

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PS Math

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3			#	3	Χ	Σ	χ	σ			≤	≥	℘	©	©	⌠
4			∃	4	Δ	Τ	δ	τ			⁄	×	⊗	™	™	⎮
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6			&	6	Φ	ς	ϕ	ϖ			ƒ	∂	∅	√	⎛	⎞
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9			)	9	Ι	Ψ	ι	ψ			♥	≠	⊃	∧	⎡	⎤
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Appendix

PS Text

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3			#	3	C	S	c	s			£	‡	ˆ		ª	
4			$	4	D	T	d	t			⁄	·	˜			
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6			&	6	F	V	f	v			ƒ	¶	˘			
7			’	7	G	W	g	w			§	•	˙			
8			(	8	H	X	h	x			¤	‚	¨		Ł	ł
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Roman-8

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2			"	2	B	R	b	r			Â	ý	ô	Ø	ã	·
3			#	3	C	S	c	s			È	°	û	Æ	Ð	μ
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6			&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	—
7			’	7	G	W	g	w			Ï	ñ	ú	æ	Ó	¼
8			(	8	H	X	h	x			´	¡	à	Ä	Ò	½
9			)	9	I	Y	i	y			`	¿	è	ì	Õ	ª
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Appendix

Ventura International

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2			"	2	B	R	b	r			Â	”	ô	Ø	ã	¶
3			#	3	C	S	c	s			È	°	û	Æ		†
4			$	4	D	T	d	t			Ê	Ç	á	å		‡
5			%	5	E	U	e	u			Ë	ç	é	í	Í	—
6			&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	–
7			’	7	G	W	g	w			Ï	ñ	ú	æ	Ó	
8			(	8	H	X	h	x			©	¡	à	Ä	Ò	
9			)	9	I	Y	i	y			®	¿	è	ì	Õ	ª
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F			/	?	O	_	o					¢	ü	Ô	ÿ	…

Ventura Math

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2			∀	2	Β	Ρ	β	ρ			⎩	⊇	≥	®	∠	⇐
3			#	3	Χ	Σ	χ	σ			⎡	⌠	∂	″	⌡	⇔
4			∃	4	Δ	Τ	δ	τ			⎢		ℵ	ƒ		∨
5			%	5	Ε	Υ	ε	υ			⎣	♣	′	ℑ	⎨	∑
6			&	6	Φ	ς	ϕ	ϖ			⎩	⊕	ℜ	©	⌠	™
7			∍	7	Γ	Ω	γ	ω			⎪	⊗	℘	±	〉	⎟
8			(	8	Η	Ξ	η	ξ			⇑	⊆	∞	→		⎦
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Ventura US

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8			(	8	H	X	h	x			©					
9			)	9	I	Y	i	y			®					
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D			-	=	M	]	m	}				§				
E			.	>	N	^	n	~								
F			/	?	O	_	o					ç				…

Windows 3.0 Latin 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	À	Ð	à	ð
1			!	1	A	Q	a	q		‘	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r		’	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú
B			+	;	K	[	k	{			«	»	Ë	Û	ë	û
C			,	<	L	\	l	|			¬	¼	Ì	Ü	ì	ü
D			-	=	M	]	m	}			-	½	Í	Ý	í	ý
E			.	>	N	^	n	~			®	¾	Î	Þ	î	þ
F			/	?	O	_	o	▒			¯	¿	Ï	ß	ï	ÿ

WINARB

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0		ـٍ		0	@	P	`	p	لأ	ج		٠	لآ	ذ	ـ	ِ
1		ـَّ	!	1	A	Q	a	q	ـ	ح	مـ	١	ء	ر	فـ	ّ
2		ـُّ	"	2	B	R	b	r	ـ	خ	نـ	٢	آ	ز	ق	ْ
3		ـِّ	#	3	C	S	c	s	ـاً	ـة	قـ	٣	أ	س	ك	ع
4		ـَ	$	4	D	T	d	t	ـٌ	ـا	يـ	٤	ؤ	ش	ل	غ
5		ـُ	%	5	E	U	e	u	ـٍ	ي	سـ	٥	إ	ص	م	هـ
6		ـِ	&	6	F	V	f	v	ـَّ	ئ	شـ	٦	ئـ	ض	ن	َّ
7		ـْ	'	7	G	W	g	w	ـُّ	ى	صـ	٧	ا	ط	ه	ُّ
8		ـّ	(	8	H	X	h	x	ـِّ	لأ	ضـ	٨	بـ	ظ	و	ِّ
9		ع	)	9	I	Y	i	y	ـَ	لآ	ـَّ	٩	ة	ع	ى	ـُّ
A		ـل	*	:	J	Z	j	z	ـُ	لإ	جـ	غ	تـ	غ	ي	ـِّ
B			+	;	K	[	k	{	ـِ	لا	حـ	؛	ثـ	ج	ً	ـَ
C		لا	,	<	L	\	l	|	ـْ	ـلـ	،	كـ	جـ	ح	ٌّ	ـُ
D		ـه	-	=	M	]	m	}	ـّ	ـأ	عـ	لـ	حـ	خ	ٍ	ـِ
E			.	>	N	^	n	~	اً	ـآ	غـ	لإ	خـ	ـّ	َ	ـْ
F			/	?	O	_	o	خـ	ـٌّ	ـإ	هـ	؟	د	ئ	ُ	

Windows Baltic

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	Ą	Š	ą	š
1			!	1	A	Q	a	q		‘		±	Į	Ń	į	ń
2			"	2	B	R	b	r	‚	’	¢	²	Ā	Ņ	ā	ņ
3			#	3	C	S	c	s		“	£	³	Ć	Ó	ć	ó
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ō	ä	ō
5			%	5	E	U	e	u	…	•		µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Ę	Ö	ę	ö
7			'	7	G	W	g	w	‡	—	§	·	Ē	×	ē	÷
8			(	8	H	X	h	x			Ø	ø	Č	Ų	č	ų
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ł	é	ł
A			*	:	J	Z	j	z			Ŗ	ŗ	Ź	Ś	ź	ś
B			+	;	K	[	k	{	‹	›	«	»	Ė	Ū	ė	ū
C			,	<	L	\	l	|			¬	¼	Ģ	Ü	ģ	ü
D			-	=	M	]	m	}	¨	¯	-	½	Ķ	Ż	ķ	ż
E			.	>	N	^	n	~	ˇ	˛	®	¾	Ī	Ž	ī	ž
F			/	?	O	_	o	▒	¸		Æ	æ	Ļ	ß	ļ	˙

WINCYR

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	Ђ	ђ		°	А	Р	а	р
1			!	1	A	Q	a	q	Ѓ	‘	Ў	±	Б	С	б	с
2			"	2	B	R	b	r	‚	’	ў	І	В	Т	в	т
3			#	3	C	S	c	s	ѓ	“	Ј	і	Г	У	г	у
4			$	4	D	T	d	t	„	”	¤	ґ	Д	Ф	д	ф
5			%	5	E	U	e	u	…	•	Ґ	µ	Е	Х	е	х
6			&	6	F	V	f	v	†	–	¦	¶	Ж	Ц	ж	ц
7			'	7	G	W	g	w	‡	—	§	·	З	Ч	з	ч
8			(	8	H	X	h	x	€		Ё	ё	И	Ш	и	ш
9			)	9	I	Y	i	y	‰	™	©	№	Й	Щ	й	щ
A			*	:	J	Z	j	z	Љ	љ	Є	є	К	Ъ	к	ъ
B			+	;	K	[	k	{	‹	›	«	»	Л	Ы	л	ы
C			,	<	L	\	l	|	Њ	њ	¬	ј	М	Ь	м	ь
D			-	=	M	]	m	}	Ќ	ќ	-	Ѕ	Н	Э	н	э
E			.	>	N	^	n	~	Ћ	ћ	®	ѕ	О	Ю	о	ю
F			/	?	O	_	o	░	Џ	џ	Ї	ї	П	Я	п	я

WINGRK

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	ΐ	Π	ΰ	π
1			!	1	A	Q	a	q		‘	΅	±	Α	Ρ	α	ρ
2			"	2	B	R	b	r	‚	’	Ά	²	Β		β	ς
3			#	3	C	S	c	s	ƒ	“	£	³	Γ	Σ	γ	σ
4			$	4	D	T	d	t	„	”	¤	΄	Δ	Τ	δ	τ
5			%	5	E	U	e	u	…	•	¥	µ	Ε	Υ	ε	υ
6			&	6	F	V	f	v	†	–	¦	¶	Ζ	Φ	ζ	φ
7			'	7	G	W	g	w	‡	—	§	·	Η	Χ	η	χ
8			(	8	H	X	h	x			¨	Έ	Θ	Ψ	θ	ψ
9			)	9	I	Y	i	y	‰	™	©	Ή	Ι	Ω	ι	ω
A			*	:	J	Z	j	z			ª	Ί	Κ	Ϊ	κ	ϊ
B			+	;	K	[	k	{	‹	›	«	»	Λ	Ϋ	λ	ϋ
C			,	<	L	\	l	|			¬	Ό	Μ	ά	μ	ό
D			-	=	M	]	m	}			-	½	Ν	έ	ν	ύ
E			.	>	N	^	n	~			®	Ύ	Ξ	ή	ξ	ώ
F			/	?	O	_	o	░				Ώ	Ο	ί	ο	

Windows 3.1 Latin 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	À	Ð	à	ð
1			!	1	A	Q	a	q		‘	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	‚	’	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	ƒ	“	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú
B			+	;	K	[	k	{	‹	›	«	»	Ë	Û	ë	û
C			,	<	L	\	l	|	Œ	œ	¬	¼	Ì	Ü	ì	ü
D			-	=	M	]	m	}			-	½	Í	Ý	í	ý
E			.	>	N	^	n	~	Ž	ž	®	¾	Î	Þ	î	þ
F			/	?	O	_	o	▒		Ÿ	¯	¿	Ï	ß	ï	ÿ

Windows 3.1 Latin 2

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	Ŕ	Đ	ŕ	đ
1			!	1	A	Q	a	q		‘	ˇ	±	Á	Ń	á	ń
2			"	2	B	R	b	r	‚	’	˘	˛	Â	Ň	â	ň
3			#	3	C	S	c	s		“	Ł	ł	Ă	Ó	ă	ó
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	Ą	µ	Ĺ	Ő	ĺ	ő
6			&	6	F	V	f	v	†	–	¦	¶	Ć	Ö	ć	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	¸	Č	Ř	č	ř
9			)	9	I	Y	i	y	‰	™	©	ą	É	Ů	é	ů
A			*	:	J	Z	j	z	Š	š	Ş	ş	Ę	Ú	ę	ú
B			+	;	K	[	k	{	‹	›	«	»	Ë	Ű	ë	ű
C			,	<	L	\	l	|	Ś	ś	¬	Ľ	Ě	Ü	ě	ü
D			-	=	M	]	m	}	Ť	ť	-	˝	Í	Ý	í	ý
E			.	>	N	^	n	~	Ž	ž	®	ľ	Î	Ţ	î	ţ
F			/	?	O	_	o	▒	Ź	ź	Ż	ż	Ď	ß	ď	˙

6

Appendix

Windows 3.1 Latin 5

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p	€			°	À	Ğ	à	ğ
1			!	1	A	Q	a	q		‘	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	‚	’	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	ƒ	“	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú
B			+	;	K	[	k	{	‹	›	«	»	Ë	Û	ë	û
C			,	<	L	\	l	|	Œ	œ	¬	¼	Ì	Ü	ì	ü
D			-	=	M	]	m	}			-	½	Í	İ	í	ı
E			.	>	N	^	n	~			®	¾	Î	Ş	î	ş
F			/	?	O	_	o	▒		Ÿ	¯	¿	Ï	ß	ï	ÿ

ISO Latin 9

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p				°	À	Ð	à	ð
1			!	1	A	Q	a	q			¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			€	Ž	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			Š	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			š	ž	È	Ø	è	ø
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú
B			+	;	K	[	k	{			«	»	Ë	Û	ë	û
C			,	<	L	\	l	|			¬	Œ	Ì	Ü	ì	ü
D			-	=	M	]	m	}			-	œ	Í	Ý	í	ý
E			.	>	N	^	n	~			®	Ÿ	Î	Þ	î	þ
F			/	?	O	_	o	▒			¯	¿	Ï	ß	ï	ÿ

PC-858

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0		►		0	@	P	`	p	Ç	É	á	░	└	ð	Ó	-
1	☺	◄	!	1	A	Q	a	q	ü	æ	í	▒	┴	Ð	ß	±
2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	Ê	Ô	‗
3	♥	‼	#	3	C	S	c	s	â	ô	ú	|	├	Ë	Ò	¾
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	È	õ	¶
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	Á	┼	€	Õ	§
6	♠	▬	&	6	F	V	f	v	å	û	ª	Â	ã	Í	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	º	À	Ã	Î	þ	¸
8	◘	↑	(	8	H	X	h	x	ê	ÿ	¿	©	╚	Ï	Þ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	®	╣	╔	┘	Ú	¨
A	◙	→	*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Û	·
B	♂	←	+	;	K	[	k	{	ï	ø	½	╗	╦	█	Ù	¹
C	♀	∟	,	<	L	\	l	|	î	£	¼	╝	╠	▄	ý	³
D	♪	↔	-	=	M	]	m	}	ì	Ø	¡	¢	═	¦	Ý	²
E	♫	▲	.	>	N	^	n	~	Ä	×	«	¥	╬	Ì	¯	■
F	☼	▼	/	?	O	_	o	⌂	Å	ƒ	»	┐	¤	▀	´	

Roman 9

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	‘	p				¯	â	Å	Á	Þ
1			!	1	A	Q	a	q			À	Ý	ê	î	Ã	þ
2			"	2	B	R	b	r			Â	ý	ô	Ø	ã	·
3			#	3	C	S	c	s			È	°	û	Æ	Đ	µ
4			$	4	D	T	d	t			Ê	Ç	á	å	ð	¶
5			%	5	E	U	e	u			Ë	ç	é	í	Í	¾
6			&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	—
7			’	7	G	W	g	w			Ï	ñ	ú	æ	Ó	¼
8			(	8	H	X	h	x			´	¡	à	Ä	Ò	½
9			)	9	I	Y	i	y			`	¿	è	ì	Õ	ª
A			*	:	J	Z	j	z			ˆ	€	ò	Ö	õ	º
B			+	;	K	[	k	{			¨	£	ù	Ü	Š	«
C			,	<	L	\	l	|			˜	¥	ä	É	š	■
D			-	=	M	]	m	}			Ù	§	ë	ï	Ú	»
E			.	>	N	^	n	~			Û	ƒ	ö	ß	Ÿ	±
F			/	?	O	_	o	▒			£	¢	ü	Ô	ÿ	

6

Appendix

OCR-A

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	⑁	p								
1			!	1	A	Q	a	q								
2			"	2	B	R	b	r								
3			#	3	C	S	c	s								
4			$	4	D	T	d	t								
5			%	5	E	U	e	u								
6			&	6	F	V	f	v								
7			'	7	G	W	g	w								
8			(	8	H	X	h	x								
9			)	9	I	Y	i	y								
A			*	:	J	Z	j	z								
B			+	;	K	[	k	{								
C			,	<	L	\	l	|								
D			-	=	M	]	m	}								
E			.	>	N	^	n	⑀								
F			/	?	O	⑂	o									

OCR-B

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p								
1			!	1	A	Q	a	q								
2			"	2	B	R	b	r								
3			#	3	C	S	c	s								
4			$	4	D	T	d	t								
5			%	5	E	U	e	u								
6			&	6	F	V	f	v								
7			'	7	G	W	g	w								
8			(	8	H	X	h	x								
9			)	9	I	Y	i	y								
A			*	:	J	Z	j	z								
B			+	;	K	[	k	{								
C			,	<	L	\	l	|								
D			-	=	M	]	m	}								
E			.	>	N	^	n	~								
F			/	?	O	_	o									

Symbol Sets Supported

This section provides a list of the character code tables for the characters in each symbol set.

ISO Substitution Table

	0	1	2	3	4	5	6	7
0				0	@	P	`	p
1			!	1	A	Q	a	q
2			"	2	B	R	b	r
3			#	3	C	S	c	s
4			$	4	D	T	d	t
5			%	5	E	U	e	u
6			&	6	F	V	f	v
7				7	G	W	g	w
8			(	8	H	X	h	x
9			)	9	I	Y	i	y
A			*	:	J	Z	j	z
B			+	;	K	[	k	{
C			,	<	L	\	l	|
D			-	=	M	]	m	}
E			.	>	N	^	n	~
F			/	?	O	_	o	

The shaded characters in the table are replaced with the corresponding ones in the following table according to the graphic set used.

GRAPHIC SET NAME	CHARACTER CODE										
	23	40	5B	5C	5D	5E	60	7B	7C	7D	7E
ISO_USA	#	@	[	\	]	^	‘	{	|	}	~
ISO_UK	£	@	[	\	]	ˆ	`	{	|	}	‾
ISO_S/F	#	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
ISO_N/D	#	@	Æ	Ø	Å	ˆ	`	æ	ø	å	‾
ISO_JPN	#	@	[	¥	]	ˆ	`	{	|	}	‾
ISO_GER	#	§	Ä	Ö	Ü	ˆ	`	ä	ö	ü	ß
ISO_FRC	£	à	°	ç	§	ˆ	µ	é	ù	è	¨
ISO_ITY	£	§	°	ç	é	ˆ	ù	à	ò	è	ì
ISO_SPN	£	§	¡	Ñ	¿	ˆ	`	°	ñ	ç	˜

Specifications

This section lists the specifications of the machine.

Software Specifications

Command Language	PCL5e, PCL6, PostScript 3 emulation (PS3)*1, and UFRII LT	
Resident Fonts	PCL:	93 Scalable fonts, 2 OCR fonts, and 10 Bitmap fonts
	PS3*1:	251 Scalable fonts
Printable Area	PCL5e, PCL6:	Reduced to 4.23 mm from the top, bottom, left, and right edges of the paper.
	PS3*1:	Reduced to 4 mm from the top, bottom, left, and right edges of the paper.
	UFR II LT:	Reduced to 5 mm*2 from the top, bottom, left, and right edges of the paper.

*1 Only available for the PS3 Printer.
*2 For envelopes:10 mm

Index

W

X

Y

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